CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, December 8, 1904.

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PERSONAL.

Mr. A. O. Baker has resigned as Superintendent of the water-works and electric light plant of Wellington, Kan.

Mr. L. Hinman, Civil Engineer for the Potosi & Rio Verde Ry., has been appointed General Superintendent, succeeding J. J. Tomlinson, who died recently at San Antonio, Tex.

Mr. William T. Noonan has been appointed General Superintendent of the Buffalo, Rochester & Pittsburg R. R., with headquarters at Rochester, N. Y., to succeed Mr. James H. Barrett, deceased.

Mr. Harry E. Biedinger, a civil engineer of Cincinnati, O., who had been employed in the construction of the sewerage system at Janesville, Wis., was married in that city, Nov. 26, to Miss Grace Ladd.

At a recent dinner at the Manhattan Club given in honor of Contractor John B. McDonald, he was presented with a winged figure of Victory, done in bronze, in acknowledgment of his construction of the Subway.

Mr. Charles S. Treadwell has resigned as President of the Bristol & Plainville Tramway Co., and of the Bristol Water Co., of Bristol, Conn. Mr. Treadwell's resignation, which takes effect Jan. 1, was due to his ill-health.

Mr. J. W. Harris has been appointed Assistant Engineer of the Buffalo Division of the Pere Marquette Ry., with headquarters at St. Thomas, Ont., succeeding Mr. Owen McKay, resigned. Mr. Harris will have charge of track, buildings, bridges, interlocking and all other maintenance of way matters.

Mr. Chas. H. Marquess has been appointed Draftsman-in-Charge at the Charleston, S. C., Navy Yard, to succeed Mr. Chas. Pearson, who recently resigned to accept a position as Assistant Engineer with the A. & N. C. Ry. Mr. Marquess was formerly with the New Castle Bridge Co., of Indianapolis, Ind.

Mr. Ray D. Hubbard, Assistant State Engineer of Nebraska, has been appointed Assistant Engineer in the reclamation branch of the U. S. Geological Survey, and left Lincoln, Neb., Dec. 1, for San Francisco, Cal., where he will assist on the Government irrigation work. Mr. Hubbard is a graduate of the Civil Engineering Department of the University of Nebraska.

Mr. A. H. Smith, Assoc. M. Am. Soc. C. E., has resigned his position as Mechanical Engineer of the Toledo, O., plant of the American Bridge Co., and has opened an office at 322 The Nasby, Toledo, with the intention of engaging in a general, civil, and mechanical engineering business, making a speciality of designs in steel and of the operating machinery for movable bridges.

Mr. J. E. Millikin has been appointed Chief Engineer of the Bonham & McKinney Electric Ry., of McKinney, Tex., succeeding his brother, William Scott Millikin, whose death is briefly mentioned in another column. Mr. Millikin will also take up his brother's engineering practice in Houston, Tex.

Mr. William Barclay Parsons, M. Am. Soc. C. E., has tendered his resignation as Chief Engineer of the Rapid Transit Commission, to take effect when the Commission deems he can best be spared. It is supposed that Mr. George S. Rice, Deputy Chief Engineer, will succeed Mr. Parsons. Mr. Parsons decided more than a year ago to resign when the Subway was completed and in operation, and made known his intention to Mr. Orr, President of the Commission at that time. Mr. Parsons will open an office for consulting practice about the first of next year, and in January will go to the Isthmus of Panama, in connection with his work as a member of the Isthmian Canal Commission.

Mr. F. P. Burt, for many years connected with the business department of the Engineering News Publishing Co. as Treasurer and Manager and later as Vice-President, has resigned to accept the Presidency of a New York corporation which has purchased the "American Architect," well known as the leading journal representing the architectural profession. The "American Architect" was established in 1876, and has been published in Boston since that time. Under its new ownership the publication office has been removed to New York where its headquarters are in the new "Times" Building.

Mr. Burt has been a member of the staff of the Engineering News Publishing Co. since February, 1887, and previous to that time, while engaged in the practice of engineering in Canada, had been a contributor to this journal. He was for some years in charge of the department of illustrations of Engineering News, and in 1895 was made its Treasurer and Business Manager. His early experience in the office of a prominent Canadian engineer and architect, and his artistic tastes and talents will be of much advantage to him in his new field of work. For his success in this work he carries with him the cordial good will and best wishes of his associates on this journal.

OBITUARY.

W. A. Waddle, Manager of the Somerset Water-Works Co., of Somerset, Ky., died suddenly in that city Nov. 27.

Edward L. Graham, a civil engineer at 29 Broadway, New York, died as the result of a pistol wound Dec. 5. It is believed that he committed suicide.

James H. Williams, founder and head of the firm of James H. Williams & Co., manufacturers of drop forgings, in Red Hook Point, N. Y., died at his home in Brooklyn, N. Y., Dec. 5, of apoplexy.

Thomas H. McGraw, Superintendent of the City Water Department of Dallas, Tex., met his death, either by accident or suicide, in that city, Dec. 2. Mr. McGraw's body was found under a railroad bridge spanning the Trinity River. He was 50 years old, and had been connected with the City Water Department for 19 years.

William Scott Millikin, Chief Engineer of the Bonham & McKinney Electric Ry., of McKinney, Tex., died in Houston, Tex., Nov. 13, of paralysis of the heart. Mr. Millikin was 40 years old, and had followed the profession of civil engineering for 24 years. For a number of years past he had been in Southern Texas, where he wa extensively engaged in installing irrigation plants on rice farms.

Henry Bartholomew Slaven, President of the Chase Granite Co., died at his home in New York City, Dec. 2, of acute bronchitis and asthma. Mr. Slaven was a member of Mackenzie surveying expedition for the Canadian Pacific R. R. through Manitoba. Later he organized the American Dredging & Construction Co., and secured a contract from Ferdinand de Lesseps for building the Atlantic end of the Panama Canal.

J. Albert Latcha, M. Am. Soc. C. E., died in Coldwater, Mich., Nov. 30. A number of years ago Mr. Latcha had a stroke of partial paralysis, from which he never fully recovered. Mr. Latcha was well known in the engineering profession, and had contributed many articles to scientific periodicals. For a number of years he was engaged in the construction service of the Pennsylvania R. R. He was also connected with the former firm of Brown, Howard & Co. in the construction of Western railroads, he having been the Chief Engineer in charge of the building of the New York, Chicago & St. Louis, the Michigan & Ohio, and Duluth, South Shore & Atlantic Railroads.

Frederick R. French, formerly Engineer in Charge of the construction of the breakwater at Manzanillo, Mexico, died at Santa Barbara, Cal., Nov. 20. Mr. French was a native of West Lebanon, N. H., and was graduated from the Thayer School of Civil Engineering of Dartmouth College in 1896. He had previously served as assistant on the Concord & Montreal Ry. in northern New Hampshire, and for a year with the Niagara Falls Paper Co., on survey and drawings for the tail-race tunnel. He also had been assistant for A. B. Tower & Co., of Holyoke, Mass., on the construction of a paper mill at De Pere, Wis., and had served as assistant engineer for the Niagara Falls Paper Co., on final estimate for the tunnel, etc. In 1895 he was with Wise & Watson, of Passaic, N. J., and later served as inspector and resident engineer on the erection of the three-span steel highway bridge connecting West Lebanon, N. H., with White River Junction, Vt., under Prof. Robert Fletcher, Consulting Engineer. The first two years after his graduation he was engineer in charge of office and construction of new plant for the Niagara Falls Paper Co., part of which time he was engineer in charge of machinery and construction. In 1898 he was joint proprietor, Niagara Engineering Works, doing a machine shop and foundry business at Niagara Falls. Soon afterwards he went to Mexico City, chiefly on account of his health, and became associated with Edgar K. Smoot, engineer and contractor for the harbor works at Manzanillo, for the Mexican Government. Mr. French became assistant and finally engineer in charge of the construction of the breakwater, a work involving peculiar difficulties, due to the climate and other natural conditions. Here his inventiveness and abilities, not only as an engineer but as a man able to deal wisely and tactfully with other men, secured a large measure of success. He devised and had built at San Francisco a steel derrick, simple in form and economical in cost, which handled rapidly blocks of stone weighing from 35 to 60 tons. Latterly his uncertain health compelled him to reside in California, where he acted as consulting engineer for the works. Mr. French had recently invented an "area cableway" for conveying materials in building operations, etc., which has been taken up by a large firm interested in conveying appliances. Mr. French leaves a wife and child. He was 32 years old.

ENGINEERING SOCIETIES.

COMING MEETINGS.

NATIONAL MOSQUITO EXTERMINATION SOCIETY.
Dec. 15, 16, 1904. Annual meeting at New York, N. Y. Secy., H. C. Weeks, Bayside, L. I., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

ENGINEERING ASSOCIATION OF THE SOUTH.
Dec. 17, 1904. Annual meeting at Nashville, Tenn.

AMERICAN ECONOMIC ASSOCIATION.
Dec. 28 to 30, 1904. Annual meeting at Chicago, Ill. Secy., F. A. Fetter, Ithaca, N. Y.

AMERICAN FOREST CONGRESS.
Jan. 2 to 6, 1905. At Washington, D. C., under the auspices of the American Forestry Association.

MICHIGAN ENGINEERING SOCIETY.
Jan. 11 to 13, 1905. Annual meeting at Lansing, Mich. Secy., F. Hodgman, Climax, Mich.

WOOD PRESERVERS' ASSOCIATION.
Jan. 16 to 19, 1905. First annual meeting at New Orleans, La. Secy., C. W. Berry, Laramie, Wyo.

NATIONAL BRICK MANUFACTURERS' ASSOCIATION
Jan. 30 to Feb. 11, 1905. Annual meeting at Birmingham, Ala.

AMERICAN ELECTROCHEMICAL SOCIETY.—The next general meeting of the society will be held at Boston, Mass., on April 25 to 27, 1905, with headquarters at the Hotel Lenox.

ENGINEERING ASSOCIATION OF THE SOUTH.—Nashville has been selected as the place for holding the next annual meeting of the Association. The meeting begins at 10 a. m., Dec. 17. Only one business session is scheduled, the afternoon being given up to visits to points of engineering interest. In the evening a dinner, given by the Nashville members, concludes the meeting.

BROOKLYN ENGINEERS' CLUB.—The annual meeting and dinner will take place at the Oxford Club, 109 Lafayette Ave., Brooklyn, N. Y., on the evening of Thursday, Dec. 8. The election of officers for the coming year is the most important item of business. Nominations have been officially presented as follows: For President, Richard S. Buck; For Vice-President, Clarence D. Pollock; For Secretary, Joseph Strachan; For Treasurer, John Middleton; the last two are at present in office.

MUNICIPAL ENGINEERS OF THE CITY OF NEW YORK.—Since this society was formed, a year and a half ago, it has actively followed the plan of making frequent inspection trips to engineering plants, public works, etc., in the neighborhood of New York City. The next inspection trip of this kind will be on Saturday, Dec. 10, to the works of the Passaic Steel Co. at Paterson, N. J. The party will leave by the 11.50 a. m. train on the Erie Ry. The works will be operated during the early part of the afternoon by special arrangement for this visit. Secy., Wisner Martin, New York City.

NATIONAL MOSQUITO EXTERMINATION SOCIETY.—This society has as its avowed objects: Education, Legislation, Co-operation, and Interchange of Ideas. Its first general convention will be held at New York, N. Y., on Dec. 15 and 16, 1904. Numerous papers and addresses on the importance of mosquito-extermination and on methods of work will be read, and all interested in the work are invited to attend. The program is as follows: First session, 2.30 p. m., Dec. 15, at the New York Aquarium, Battery Place. The final organization of the society will be perfected at this meeting. Exhibits of mosquito-hatching, and of fishes which destroy mosquitoes, will be shown. Mr. Frank Moss will present a "Criminal Indictment of the Mosquito." Second Session, 8 p. m., Dec. 15, at 174 Montague St., Brooklyn. Papers: "The Sanitation of the Panama Canal Zone," by Col. Wm. C. Gorgas, U. S. A., and "Diversities Among New York Mosquitoes," by Dr. E. P. Felt. Third Session, 2.30 p. m., Dec. 16, at 502 Fulton St., Brooklyn. Papers: "Methods of Examination and Dissection of Mosquitoes for Parasites," by Dr. Walter Wyman and Dr. M. T. Rosenau, and "What New York City is Doing and Might Do

Towards Mosquito Extermination," by Dr. Thomas Darlington. Fourth Session, 8 p. m., Dec. 16, at Berkeley Lyceum, 19 W. 44th St., Manhattan, New York City. Papers: "The Mosquito Question," by Dr. Q. Kohnke, and "The Relation of Mosquito Extermination to Engineering and Public Improvements," by Mr. C. C. Vermeule. Mr. Wm. J. Matheson is chairman of the provisional committee of organization and Mr. H. C. Weeks, Bayside, L. I., New York City, is secretary.

CONNECTICUT SANITARY CONFERENCE.—The second annual Sanitary Conference of Health Officials in Connecticut is to be held at Hartford, Conn., on Dec. 14 and 15, 1904. The three sessions of the conference will be at the Hunt Memorial Bldg., 38 Prospect St. Some of the papers scheduled to be read are: "Recently Constructed Septic Tanks for the Manchester Sanitary and Sewer District," by Mr. T. H. McKenzie; "British Sewage Works," by Mr. M. N. Baker, Associate Editor of Engineering News; "Certain Phases of the Milk Supply as related to Sanitation," by Prof. W. H. Conn; "Epidemic Cerebro-Spinal Meningitis," by Dr. W. B. Steiner; "The Use of Copper Salts in the Purification of Public Water Supplies," by Prof. H. E. Smith; "Sewage Problems in Connecticut," by Mr. F. L. Ford; "Mosquitoes and their Relation to Public Health," by Prof. W. E. Britton; "Modern Sanitary Methods," by Dr. E. B. Hooker. The headquarters will be at Heublein's Hotel. The Conference is held under the auspices of the State Board of Health, and all health officers are urgently invited to attend, but all others interested will be welcomed.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

PANAMA CANAL EMPLOYEES.—The U. S. Civil Service Commission has announced that it will hold several examinations the latter part of this month and the first part of January to secure eligibles to fill vacancies in the employ of the Isthmian Canal Commission on the Isthmus of Panama. Further information regarding these examinations will be found on page 527.

CADET.—The U. S. Civil Service Commission holds examinations from time to time, whenever eligibles are needed, to fill the position of Cadet in the Revenue Cutter Service. The examination offers an opportunity for men of from 18 to 25 years of age to enter an interesting field of government employment where the salaries compare most favorably with those paid in other branches of the Government Service. The salary of a cadet is $500 per year and one commutated ration per day, and after satisfactorily completing a three years' course at the School of Instruction of the Revenue Cutter Service, cadets are commissioned as third lieutenants at a salary of $1,400 per annum.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close Dec.	Work.	Place.	On file.	See issue.
*12	Monuments	Wilmington, N. C.	P. & S.	11-17
14	Dike	Mare Island, Cal.	S.	12- 8
*15	Water-works	Santiago de Cuba	P. & S.	11-17
*15	Water supply	Cuba	P. & S.	11-17
17	Dredging	San Francisco, Cal.	S.	11-17
*20	Dam and lock	Boston, Mass.	P. & S.	11-17
27	Drafting materials	Wash., D. C.	P. & S.	11-24
31	Traveling crane	Wash., D. C.	S.	12- 1

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close.	Work. Place.	See issue.
	LIGHT, HEAT AND POWER PLANTS.	
Dec. 12	Arc lights, Philadelphia, Pa	Dec. 8
Dec. 20	Electric system, Ft. Leavenworth, Kan	Dec. 1
Dec. 20	Engines, etc., Cleveland, O	Dec. 1
	BRIDGES.	
Dec. 9	Bridges, Memphis, Tenn	Dec. 8
Dec. 14	Bridges, Belgium	Nov. 10
Dec. 20	Bridges, Harrisburg, Pa	Dec. 8
Dec. 22	Bridge, anchorage, New York, N. Y	Dec. 8
Dec. 28	Bridges, Hastings, Neb	Dec. 8
Dec. 29	Bridge steel, Latrobe, Pa	Dec. 1
Jan. 1	Bridge, steel, Houma, La	Dec. 8
Jan. 2	Bridge, steel, Tombstone, Ariz	Dec. 1
Jan. 5	Bridge, Redding, Cal	Dec. 1
Jan. 5	Bridges, Phoenix, Ariz	Dec. 1
Jan. 11	Bridge, steel, Billings, Mont	Dec. 1
	Advertised, Eng. News, Dec. 1 to 29.	
Jan. 13	Bridge, Lewiston, Idaho	Dec. 8
	BUILDINGS.	
Dec. 8	Elevator, Salt Lake City, Utah	Nov. 24
Dec. 8	Steam power, etc., New York, N. Y	Nov. 17
Dec. 10	Church, Chicago, Ill	Nov. 17
Dec. 10	Railway station, Mobile, Ala	Nov. 10
Dec. 11	Warehouses, Pittsburg, Pa	Dec. 8
Dec. 12	School, New York, N. Y	Dec. 8
Dec. 12	Court house, Providence, R. I	Nov. 3
Dec. 12	Shed, Stockton, Cal	Nov. 24
Dec. 13	Elevator, Portland, Ore	Nov. 24
Dec. 13	Steam heating, Portland, Ore	Nov. 17
Dec. 13	Court house reprs, Point A La Hache, La	Dec. 8
Dec. 14	Hospital building, Annapolis, Md	Dec. 8
Dec. 14	Jail, courthouse plans, Prattville, Ala	Dec. 8
Dec. 14	Electric work, Cheyenne, Wyo	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.	
Dec. 14	Buildings, Cheyenne, Wyo	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.	
Dec. 14	Post office, Biloxi, Miss	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.	
Dec. 14	Post exchange, San Antonio, Tex	Dec. 1
Dec. 15	Exposition bldg. and plans, Dallas, Tex	Dec. 1
Dec. 15	Post office, Norristown, Pa	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.	
Dec. 15	Several buildings, Port Townsend, Wash	Nov. 24
Dec. 16	Crib superstructure, Chicago, Ill	Nov. 24
Dec. 17	Library, Denver, Colo	Nov. 3
Dec. 17	Court house, Camden, S. C	Nov. 24
Dec. 17	Boiler house, Denver, Colo	Dec. 8
Dec. 19	Heating, McKeesport, Pa	Dec. 1
Dec. 20	Steam heating, Harrison, Ark	Nov. 17
	Advertised, Eng. News, Nov. 17 and 24.	
Dec. 21	Wagon shed, etc., Oswego, N. Y	Nov. 24
	Advertised, Eng. News, Nov. 24 to Dec. 15.	
Dec. 21	Post office, Gainesville, Fla	Nov. 24
	Advertised, Eng. News, Nov. 24 to Dec. 1.	
Dec. 21	Court house, Faulkton, S. Dak	Dec. 1
Dec. 27	Barrack, Ft. Slocum, N. Y	Dec. 8
	Advertised, Eng. News, Dec. 8 and Dec. 22.	
Dec. 28	Post office, Selma, Ala	Dec. 1
	Advertised, Eng. News, Dec. 1 and 8.	
Dec. 29	Post office, Vincennes, Ind	Nov. 24
Dec. 29	Hotel, Victoria, B. C	Nov. 3
Dec. 30	Heating, Leadville, Colo	Dec. 8
	Advertised, Eng. News, Dec. 8 and 15.	
Dec. 31	Frame building, Montrose, Colo	Dec. 1
	Advertised, Eng. News, Dec. 1 to 22.	
Jan. 3	Court house, Wheeling, W. Va	Nov. 24
Jan. 3	Post office work, Kansas City, Kan	Dec. 8
Jan. 4	Post office, Dekalb, Ill	Dec. 8
Jan. 4	Dwelling, Baltimore, Md	Dec. 8
	Advertised, Eng. News, Dec. 8.	
Jan. 5	Post office, Ogden, Utah	Dec. 8
Jan. 9	Post office, Henderson, Ky	Dec. 8
Jan. 10	Post office, Newcastle, Pa	Dec. 1
	Advertised, Eng. News, Dec. 1 and 8.	
Jan. 19	Post office, Fresno, Cal	Dec. 8
Jan. 25	Post office, Washington, Pa	Dec. 8
Jan. 31	Post office, Albert Lea, Minn	Dec. 8
	Advertised, Eng. News, Dec. 8 and 15.	
	WATER SUPPLY AND IRRIGATION.	
Dec. 12	Water-works ext's'ns, Deadwood, S. Dak	Dec. 1
Dec. 13	Artesian well, Onalaska, Wis	Dec. 1
Dec. 13	Pumping station addition, Chicago, Ill	Dec. 1
Dec. 14	Water pipe, Savannah, Ga	Dec. 8
Dec. 14	Water pipe laying, Sandusky, O	Dec. 8
Dec. 15	Water supply, Cuba	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 8.	
Dec. 15	Irrigation ditches, etc., Hazen, Nev	Nov. 24
	Advertised, Eng. News, Nov. 24 to Dec. 15.	
Dec. 15	Water-works, Jefferson, Tex	Nov. 24
	Advertised, Eng. News, Nov. 24.	
Dec. 16	Water pipe, North Bay, Ont	Dec. 8
Dec. 17	Water-works, Marion, N. C	Nov. 24
	Advertised, Eng. News, Nov. 10 and 17.	
Dec. 19	Water-works, Holland, Minn	Nov. 10
Dec. 19	Pumping engine, etc., Canton, O	Nov. 24
	Advertised, Eng. News, Nov. 24 and Dec. 1.	
Dec. 19	Pumping engine, Montgomery, Ala	Dec. 1
	Advertised, Eng. News, Dec. 1.	
Dec. 20	Pipe, Toronto, Ont	Nov. 3
	Advertised, Eng. News, Nov. 3 and 10.	
Dec. 21	Pumps, boilers, engines, England	Nov. 17
Dec. 26	Water-works, Osceola, Neb	Dec. 8
Dec. 28	Laying pipe, Aberdeen, Wash	Dec. 8
Jan. 3	Pumping, boilers, etc., Muscatine, Ia	Dec. 8
	Advertised, Eng. News, Dec. 8 to Jan. 4.	
Jan. 9	Outlet tunnel, Casper, Wyo	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 5.	
Jan. 10	Pipe, etc., Washington, D. C	Dec. 1
Jan. 10	Water system, Bishop, Cal	Dec. 8
	Advertised, Eng. News, Dec. 8 to 29.	
Jan. 14	Water pipe, Savannah, Ga	Dec. 8
Jan. 14	Water pipe laying, Sandusky, O	Dec. 8
Jan. 16	Water pipe, North Bay, Ont	Dec. 8
	SEWERAGE.	
Dec. 8	Sewer, Detroit, Mich	Dec. 8
Dec. 9	Sewers, Zanesville, O	Dec. 8
Dec. 14	Sewer, Indianapolis, Ind	Dec. 8
Dec. 15	Sewers, Jefferson City, Mo	Dec. 8
Dec. 15	Sewers, Pine Bluff, Ark	Nov. 24
Dec. 16	Sewers, Lakewood, O	Dec. 8
Dec. 19	Sewer, Richmond, Ind	Dec. 8
Dec. 20	Sewer system, West Orange, N. J	Nov. 24
	Advertised, Eng. News, Nov. 24 to Dec. 15.	
Dec. 26	Sewers, Albany, Ga	Dec. 8
Jan. 10	Sewer system, Bishop, Cal	Dec. 8
	Advertised, Eng. News, Dec. 8 to 22.	
Jan. 31	Sewers, water pipe, etc., New Orleans, La	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 19.	
	STREETS AND ROADS.	
Dec. 1	Sidewalks, Ashland, O	Nov. 24
Dec. 1	Sidewalks, Keokuk, Ia	Nov. 3
Dec. 2	Sidewalks, etc., Hamilton, O	Nov. 24
Dec. 2	Paving, Dayton, O	Dec. 1
Dec. 3	Road, Harrisburg, Pa	Nov. 24
Dec. 4	Paving, Santa Ana, Cal	Dec. 1
Dec. 5	Roads, Bedford, Ind	Dec. 1
Dec. 5	Road, Brownstown, Ind	Nov. 24
Dec. 6	Paving, etc., Henderson, Ky	Nov. 24
Dec. 7	Sidewalks, Vancouver Barracks, Wash	Nov. 24
Dec. 7	Paving, etc., Brooklyn, N. Y	Dec. 1
Dec. 7	Grading, etc., Vailsburg, N. J	Dec. 1
Dec. 9	Road, Bakersfield, Cal	Dec. 1
Dec. 9	Paving, St. Louis, Mo	Dec. 1
Dec. 9	Macadamizing, Indianapolis, Ind	Dec. 8
Dec. 9	Paving, Sterling, Ill	Dec. 8
Dec. 10	Road, Laporte, Ind	Dec. 8
Dec. 12	Gravel road, Tom's River, N. J	Dec. 1
Dec. 12	Paving, asphalt, St. Paul, Minn	Dec. 8
Dec. 14	Paving, West Hoboken, N. J	Dec. 8
Dec. 14	Paving, asphalt, New York, N. Y	Dec. 8
Dec. 15	Road, Uniontown, Pa	Dec. 1
Dec. 16	Granite pavement, New York, N. Y	Dec. 8
Dec. 17	Sidewalks, etc., Seattle, Wash	Dec. 8
Dec. 17	Macadamizing, Norwood, O	Dec. 1
Dec. 19	Paving, vitrified brick, Webb City, Mo	Nov. 17
Dec. 19	Sidewalks, Montgomery, Ala	Dec. 8
Dec. 19	Sidewalks, etc., Blaine, Wash	Dec. 8
Dec. 20	Paving, Xenia, O	Dec. 8
Dec. 23	Macadamizing, Collingswood, N. J	8
Dec. 29	Roads, Winamac, Ind	1
No date	Ballast and screenings, Pittsburg, Pa	1
	MISCELLANEOUS CONTRACTS.	
Dec. 8	Dredging, San Francisco, Cal	17
Dec. 8	Electric elevator, Washington, D. C	17
	Advertised, Eng. News, Nov. 17 and …	
Dec. 9	Hand carts, etc., Jeffersonville, Ind	1
Dec. 10	Drainage work, Taylorville, Ill	1
Dec. 12	Telegraph system, Houston, Tex	1
Dec. 12	Garbage crematory, Muncie, Ind	1
Dec. 12	Monuments, Wilmington, N. C	17
	Advertised, Eng. News, Nov. 17 to Dec. 8	
Dec. 12	Wharf, Hawaii	8
Dec. 13	Naval supplies, Washington, D. C	8
Dec. 13	Machine tools, Washington, D. C	17
Dec. 13	Electric elevator, Washington, D. C	17
Dec. 13	Naval supplies, Washington, D. C	1
Dec. 14	Hydraulic lift lock, Kirkfield, Ont	10
Dec. 15	Battleship, Washington, D. C	24
Dec. 15	Canal improvement, Albany, N. Y	24
	Advertised, Eng. News, Nov. 24 to Dec. 22	
Dec. 15	Boiler house extension, etc., N. York, N. Y	24
Dec. 15	Tunnel, Boston, Mass	1
	Advertised, Eng. News, Dec. 1 and 8.	
Dec. 15	Dredging, Boston, Mass	8
Dec. 16	Coaling wharf, Savannah, Ga	24
Dec. 16	Window and door screens, Prescott, Ariz	Nov. 17
	Advertised, Eng. News, Nov. 17 to Dec. 15	
Dec. 16	Wire screens, Washington, D. C	Nov. 24
Dec. 17	Lumber, Washington, D. C	Nov. 24
Dec. 17	Dredging, breakwater, Rondeau, Ont	Dec. 8
Dec. 19	Mail conveying system, Chicago, Ill	Dec. 1
	Advertised, Eng. News, Dec. 1 and 8.	
Dec. 19	Breakwaters, dredging, Port Stanley, Ont	Dec. 8
Dec. 20	Naval supplies, Washington, D. C	Dec. 8
Dec. 20	Naval supplies, Washington, D. C	Dec. 8
Dec. 20	Naval supplies, Washington, D. C	Dec. 8
Dec. 20	Compressor, Washington, D. C	Nov. 17
Dec. 20	Dam and lock, Boston, Mass	Nov. 17
	Advertised, Eng. News, Nov. 10 to Dec. 8.	
Dec. 21	Box lockers, St. Paul, Minn	Dec. 1
Dec. 25	Coal unloading apparatus, Belgium	Oct. 20
Dec. 27	Cranes, etc., South Africa	Nov. 10
Dec. 27	Drafting materials, etc., Wash., D. C	Nov. 24
Dec. 28	Telephone material, Australia	Nov. 24
Dec. 28	Telegraph material, etc., Australia	Nov. 17
Dec. 30	Dredging, Norfolk, Va	Dec. 8
	Advertised, Eng. News, Dec. 8 and 15.	
Dec. 30	Box lockers, Jeffersonville, Ind	Dec. 8
Dec. 31	Portland cement, Washington, D. C	Nov. 24
Dec. 31	Traveling crane, Washington, D. C	Dec. 1
Jan. 4	Barges and boats, St. Louis, Mo	Dec. 8
	Advertised, Eng. News, Dec. 8 to Jan. 4.	
Jan. 5	Garbage crematory, Ft. S. Houston, Tex	Dec. 8
Jan. 5	Fuel oil, etc., Phoenix, Ariz	Nov. 24
	Advertised, Eng. News, Nov. 24 to Jan. 4.	
Jan. 7	Drain, Sarina, Ont	Dec. 8
Jan. 14	Dike, Mare Island, Cal	Dec. 8
Jan. 25	Dredging, New Orleans, La	Dec. 8
Feb. 8	Dam and bridges, Phoenix, Ariz	Dec. 1
	Advertised, Eng. News, Dec. 1 to Feb. 5.	
Mar. 31	Electric railway, China	Oct. 20
	Advertised, Eng. News, Oct. 20 to Dec. 29.	
Apr. 1	Dredging, Sweden	Nov. 24
No date	Quarry stripping, Ohio	Dec. 8
	Advertised, Eng. News, Dec. 1.	

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RAILWAYS.

ARIZONA & COLORADO.—Denver "Republican" gives terminals of this road as Trinidad, Colo., and Alma, N. Mex., on the proposed main line. There will be a branch of which one terminus will be a convenient point on the main line at or near Farmington, Colo., the other a point on the boundary line between Arizona and New Mexico on the Big Puerto River west of Manuelito. Another branch line will have a terminus at or near Farmington and the other at a point where the La Plata intersects the Colorado-New Mexico boundary and another from the latter point to Aztec. The main line will have 450 miles of trackage and the branches 150 miles. As previously mentioned, this company was incorporated in October in New Mexico, with $5,000,00 capital. Incorporation papers give Durango, Colo., and Clifton, Ariz., as terminals. The company is stated to have filed upon 20,000 acres of coal lands in western New Mexico. Headquarters will be at Tucson, Ariz. Road has been surveyed and will, with its branch lines, immediately be constructed, covering 650 miles in New Mexico. A subsidiary corporation, the Arizona & Eastern Ry., 50 miles long, in New Mexico, and with headquarters at Lordsburg, has also filed incorporation papers. Capitalization of this road is $1,000,000. The Southern Pacific road is backing the project, according to press report.

BELT LINE.—O. O. Kinney, of Marshfield, Ore., is reported authority for statement that active work will be commenced this winter on a railway around Coos Bay, Ore., to be known as the Belt Line Ry., a distance of 30 miles.

CALIFORNIA.—Application has been made to Supervisors of Stanislaus County by B. H. Kinney, of Port Richmond, for rights to build a railway from Riverbank to Bald Eagle ranch and thence to Modesto. Preliminary survey has been made. The railway would connect with the main line of the Atchison, Topeka & Santa Fe. Estimated cost, $350,000.

San Francisco report states that the stockholders of the Big Trees Mining Co., of Stockton, have authorized a 45-year bond issue of $1,000,000, to secure funds for the construction and operation of a 200-ton-a-day capacity smelting plant system at Murphys, Cal., and to construct an 11-mile railroad from Angels Camp or from Valley Springs by way of San Andreas. Giles Otis Pearce is Pres. and Gen. Mgr. of the company.

CANADIAN PACIFIC RY.—An additional 25 miles will be surveyed at end of Lacombe branch.

CHICAGO GREAT WESTERN.—A report from Sioux City, Ia., states that this company has bought $250,000 worth of property for terminals here preliminary to the construction of connections with the Burlington system south and west from here.

DELAWARE & HUDSON.—Contracts are reported to have been let for an extension from Thurman, N. Y., to Warrensburg. An extension to Caldwell, on the Lake George division, will be made later. James MacMartin is Ch. Engr., Albany, N. Y.

GRAND TRUNK PACIFIC.—Surveys are reported to be progressing satisfactorily. 34 surveying parties are in the field. Chief of Staff Perry is quoted by papers in stating that the Thunder Mountain Branch will be the first line built. Surveys will be continued all winter and construction work begun early in the spring. It will be about 200 miles long. F. B. Wade is Chn. of Construction Comn. of the Eastern Section, at Ottawa. C. A. Young of Winnipeg, and Alfred Brunet of Montreal are members of the Commission. Hugh D. Lumsden is Ch. Engr. of the Trans-Continental Ry., the easterly connection of the G. T. P., at Ottawa.

Speyer & Co., Bankers, of New York and London, have confirmed the report, it is stated, that they would finance the project. The line will be over 3,200 miles long. Port Simpson, B. C., is to be the proposed terminal. The Canadian Government will construct the portion of the proposed line from Moncton to Winnipeg, about 1,475 miles, and lease it for 50 years to the Grand Trunk. The remainder of the line from Winnipeg west will be built by the Grand Trunk. Speyer & Co. announce that they have purchased $14,600,000 of the first mortgage bonds.

INDIAN TERRITORY.—Proposition submitted to citizens of Vinita, Ind. T., by F. A. McClellan, of St. Louis, Mo., has been accepted. He will build a road from this city northwest to Bartlesville or Coffeyville coal fields. A bonus of $50,000 has been raised. Line will run by way of Timber Hill and Centralia. It is to be in operation to Timber Hill coal mines in one year, to Centralia in 18 months, and to its terminus in two years.

KANSAS CITY, OKLAHOMA & HOUSTON.—Financial arrangements for building this line between Kansas City, Mo., and Houston, Tex., are reported to have been completed. Work will begin soon. Line has been surveyed already between South McAlister, Okla., and Honey Grove, Tex., 107 miles. Total length will be 710 miles. This company was chartered in Texas and in Oklahoma in September. In Texas the line will run from Lake West on Red River, south via Bonham, and Greenville, through the counties of Fannin, Hunt, Van Zandt, and Henderson to Athens, about 125 miles. Capital stock is $125,000. General offices will be located at Athens, Tex. Incorporators are P. W. Bean and A. C. Springs, of Kansas City, Mo.; M. C. Wolfe, of Wolfe City, Tex.; John W. Davidson, of Canton; J. T. Larue, of Athens, Tex., and others.

LIVE OAK & PERRY.—No grading contract will be let, it is said, for proposed extension from Lafayette County terminus in Florida, through Perry and Hampton Springs to the Aucilla River, mentioned last week. R. L. Dowling is Gen. Mgr., at Live Oak, Fla.

LOUISVILLE & NASHVILLE.—Officials at recent meeting decided to issue $2,000,000 of bonds for general improvements. The following officers were elected: President, M. H. Smith, of Louisville, Ky.; Vice-Pres., J. M. Falkner, of Montgomery; Secy., G. W. Craik, of Montgomery; Supt., B. M. Starks, of Birmingham.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—This road will build a branch line from Thief River Falls, Minn., into North Dakota. City of Thief River Falls is asked by this company to furnish site for terminal.

MONROE & LAKE PROVIDENCE.—J. D. Garrison, of Monroe, La., has been commissioned to run surveys for this line and W. H. Hampton to secure right of way. Bids for construction, equipment, etc., will not be received until completion of survey. As noted last week, this company has been incorporated with $1,000,000 capital, to build from Monroe to Lake Providence, La., 65 miles.

NEW YORK CENTRAL & HUDSON RIVER.—Rumors credit this company with plans for a direct line from White Plains, N. Y., to Springfield, Mass.

NORTHERN PACIFIC.—B. L. Crosby, Prin. Asst. Engr., Tacoma, Wash., informs us that lowering tracks of the N. P. through Spokane is not under consideration. It was reported that plans had been prepared and that work would be carried out soon at cost of $2,000,000.

OCEAN BEACH RY.—Capt. C. H. McKinstry, of Los Angeles, has applied to San Diego, Cal., Board of Public Works for permission to build a railway along the dike constructed by the government to divert San Diego River into False Bay. No action has been taken.

OREGON.—The Hassan Mining Co., of Salem, Ore., is behind project to build a $100,000 railway from Gates, the eastern terminus of the Corvallis & Eastern Ry., into the Cascade Mountains, about 22 miles. S. E. Hassan is Engr.-in-Charge. Grading and construction work will not begin before next spring.

ST. LOUIS, BROWNSVILLE & MEXICO.—The name of this company has been changed to the Gulf Coast Line. J. N. Miller is Gen. Mgr., at Corpus Christi, Tex., and W. P. Honlan is Ch. Engr.

SAN DIEGO EASTERN.—George W. Marston and L. L. Boone, Chn. and Secy., respectively, of Ry. Com., have applied to city council for a renewal of franchise granted to this company to build and operate a railroad through San Diego, Cal. A 1-year extension of time from Jan. 1, 1905, is asked.

TENNESSEE.—The Schlosser Leather Co. of Knoxville, Tenn., will build six miles of railroad to connect with the Knoxville and Ohio at Pioneer. Work will begin Jan. 1.

UNION RY.—Pittsburg "Times" states that contract probably will be let at once for extension of this road from the Duquesne plant of the Carnegie Steel Co. to connect with the West Side Belt line branch of the Wabash Railroad, at Thompsons Run junction. Nine miles of railroad will be included in the contract. The cost of building the extension will be between $800,000 and $1,000,000. It will require about six months to complete the work. Plans for the extension were drawn by engineers of the Wabash and Union Railroad companies. F. R. McFeatters, Fort Perry, Pa., is Supt.

WABASH.—Virgil C. Bogue, Consult. Engr., 17 William St., New York, according to Washington, Pa., report, is authority for statement that contracts will be let early next year for construction of the Greene County branch of this road. The line will run from Washington, Pa., to Fairmount, W. Va. W. S. Newhall, St. Louis, is Ch. Engr. of the Wabash system.

STREET AND ELECTRIC RAILWAYS.

BINGHAM, ME.—H. F. Hill, Ch. Engr. Somerset Ry. Co., City, informs us that the contract for about nine miles of railway construction, including track-laying, was awarded to J. S. Kaulbach & Co., New York. Work will begin at once. Bids for the work were opened Dec. 1.

ROCKVILLE, CONN.—The contract for construction of Rockville, Broad Brook & East Windsor Street Railway, which it is proposed to run from this city through Ellington and Broad Brook to connect with the Hartford & Springfield Street Railway beyond that village, has been taken by Thomas C. Perkins, of Hartford.

WESTFIELD, MASS.—Right of way over private land has been secured by the Western Massachusetts Ry. Co. from a number of property-owners between Westfield and Lee, and it is expected to build the line and have it in operation from Westfield to Huntington next summer. The company will be chartered with $200,000 cap. stock, but this will have to be increased as the line extends beyond Huntington, probably $1,000,000 being necessary to build and equip it through to Lee. Chas. N. Oakes, Town Clk., can probably inform.

NEW LONDON, CONN.—New plans for connecting New London with Worcester, Mass., by trolley are reported under consideration.

JAMESTOWN, N. Y.—The Jamestown Street Ry. Co. has been granted a franchise by Common Council to extend its lines from Third St. through Washington St. to West Second St. and thence on West Second St to Cherry St. to connect with a right of way already held by the company on Cherry St. Chas. Griffith is Ch. Engr.

ROCHESTER, N. Y.—A movement is on foot to bring about the construction of a street car line in East Ave., from Main St. east to Alexander St.

SYRACUSE, N. Y.—The franchise recently granted to the Syracuse Rapid Transit Co. for an extension of the South Ave. line, has been approved by Board of Estimate and Apportionment. W. P. Gannon is Pres.

ESSEX FELLS, N. J.—Plans are under consideration by the Erie Railroad Co., Morristown & Erie Railroad Co., which connects with Erie at Essex Fells, and Public Service Corporation to connect Newark by trolley directly with Morristown over the tracks of Morristown & Erie. Thomas N. McCarter, of Newark, is Pres. Public Service Corporation.

SHARON, PA.—Wheatland Borough Council passed ordinance granting Sharon & Wheatland Street Ry. Co. the right to extend its line and lay its tracks on the streets of Wheatland. The company's line now has its terminus at the South Sharon borough line.

PITTSBURG, PA.—Extensions of the lines of Clairton Street Railway, to reach several settlements in the neighborhood, have been planned. As soon as franchises can be obtained from Clairton to Nicola, the work of extending the line will be begun. The distance is two miles, and it is thought that the work will be completed next year. After this connection has been completed, it is the intention of the company to build another branch along Monongahela River to West Elizabeth.

WHEELING, W. VA.—The lines of new city railway will probably be extended beyond 48th St. to Benwood, and thence across Ohio River by the way of new trans-Ohio bridge that is to be built to Bellaire. Gen. Alfred Caldwell, Chapline St., can inform.

CHARLESTON, S. C.—A charter has been issued to Charleston & Summerville Ry. Co. to build and operate an electric car line between Charleston and Summerville. The capital stock is $1,000,000. The incorporators are: J. J. O'Connell, Geo. S. Legare and R. P. Evans, of Charleston, and W. F. Martin, of Philadelphia. The charter calls for a line of 30 miles, more or less.

ATLANTA, GA.—We are informed that the Atlanta & Carolina Ry. Co. has been organized. The company proposes to build an electric line from Atlanta to Greenville, S. C. John R. Hosch, of Hoschton, Ga., is Pres.

ENSLEY, ALA.—The "Pink Sheet Daily Bulletin" states that the Birmingham Railway, Light & Power Co. will build a double track extension from Tuxedo car line to Sherman Heights, a distance of one mile.

GREENVILLE, MISS.—The citizens of Belzoni and Greenville have procured right-of-way, and Yazoo & Mississippi Valley Ry. Co. will build branch line from Trail Lake to Belzoni.

HATTIESBURG, MISS.—The city has granted G. L. Hawkins and associates a franchise for construction of a street railway system at this place.

NEW ORLEANS, LA.—The New Orleans Railways Co. has asked for a franchise for a line in New Orleans Ave., beginning at Metairie Road and extending to a point near Taylor Ave through a loop to Crescent City Jockey Club. E. C. Foster is Pres.

KNOXVILLE, TENN.—The Knoxville Traction Co. has secured a permit to begin work on Kentucky St. extension of their line from Bell Ave.

CONNERSVILLE, IND.—Local promoters are interested in a proposed electric line from Cambridge City to Connersville. The plan is to lease the old L. E. & W. road between Milton and Beeson, connecting with electric line between Milton and Cambridge City, now operating, and to obtain a private right-of-way from Beeson to Connersville. This would leave five miles of track to build to complete the road.

INDIANAPOLIS, IND.—Indianapolis, Newcastle & Toledo Ry. Co. has incorporated in Indianapolis to build 140 miles of electric railway, as follows: From Indianapolis via Newcastle to Winchester, with branches from Newcastle to Richmond, from Newcastle to Muncie, from Anderson to Shirley, on the main line, and from Maxwell, on the main line to Greenfield. Capital stock, $3,500,000. Directors; D. M. Parry, of Indianapolis, president; Charles S. Hernly, of Newcastle, vice-president and general manager; F. M. Ingler, of Newcastle, secretary and general counsel; Robert Churchman, of Indianapolis, treasurer, and W. E. Stevenson, of Indianapolis; Eli Marvin, of Frankfort; and Eugene H. Bundy, of Newcastle. Chas. N. Mikels, of Newcastle is Supt.

MARION, IND.—The Marion & Eastern Traction Co. has filed articles of incorporation with capital stock of $30,000. The company's declared purpose is to construct street railway systems in Marion, Van Buren, Warren, Bluffton and Decatur, and connect the city systems with an interurban system. The principal office will be in Marion. R. E. Breed, Wm. B. Dodds, J. J. Coleman and others, promoters.

MOUNT VERNON, IND.—The Cleveland, Wooster, Mount Vernon & Columbus Railroad Co., of Mount Vernon, has incorporated with $10,000 cap. stock by John J. Vail, James B. Graham, James A. Tillen, Fred. W. Jones and E. F. Shelley. They propose an electric railway connecting Cleveland and Columbus, through Cuyahoga, Medina, Summit, Wayne, Stark, Holmes, Ashton, Crawford, Richland, Knox, Licking and Franklin Counties.

ADRIAN, MICH.—The survey of the Adrian & Ann Arbor electric railroad, which will connect the two cities, has been completed. It will run through Saline, Macon and Tecumseh. This line will give Ann Arbor and neighboring places a short electric connection with Toledo, through the Toledo & Western, from Adrian.

NILES, MICH.—Articles of incorporation have been filed with the Secretary of State by Niles & Buchanan Ry. Co., organized with $25,000 capital, to build an electric railway from Niles to Buchanan.

CHICAGO, ILL.—The Chicago & Southern Traction Co. has been incorporated to build an electric line from Chicago to Kankakee, with stations at Harvey, Homewood, Matteson, Monee, Peotone, Manteno, Tucker and Bradley.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

Wm. S. Reed, president; Attorney Chas F. Davis, vice-president; John B. Reed, secretary, and Robt. Woods, of Indianapolis, treasurer. Mr. Davies said more than two-thirds of right of way had been secured and that the capitalization of $100,000 would be increased to $5,000,000, and work started as soon as possible.

PEORIA, ILL.—The Alton, Jacksonville & Peoria Ry. Co. has been incorporated with $100,000 cap. stock. The railway is to be run from Alton to Peoria. The principal offices will be in Jerseyville. Robt. Curdie, of Alton; Jos. Becker and Andrew Goss, of Jerseyville, are among the stockholders.

CHICAGO, ILL.—The Evanston Interurban Ry. Co. has been incorporated to build an electric railway in Evanston. Dr. E. P. Clapp, J. W. Work, J. F. Kennie, Andrew Simpson and C. H. Poppenhausen are the incorporators. Office, 1575 Sherman Ave.

BELLE PLAINE, IA.—The town will vote Dec. 12 on granting a franchise to John Lorenz and H. R. Mosnat for a street and interurban railway.

COUNCIL BLUFFS, IA.—An electric railway is projected from Carson to this city via Treynor. Dr. Pierce of Carson is interested.

VINTON, IA.—The Belle Plaine & Vinton street and interurban line proposes a line to this city. Preliminary surveys have been made.

STILLWATER, MINN.—The Twin City Rapid Transit Co. has applied for a franchise for a line between this city and South Stillwater. W. D. Dozier, of Minneapolis, is Ch. Engr.

HOUSTON, MO.—The Houston, Licking & Salem Electric Ry. Co. has been organized here with the following Board of Directors: James A. Craven, Robt. Lamar, W. J. McGehee, Clark Dooley, W. E. Barton, J. R. Blankenship and A. J. Johnson. Bonds will be issued soon. It is believed that the enterprise is assured, and that the electric road will be built from Houston to Salem, via Licking.

CORPUS CHRISTI, TEX.—The Houston Electric Co., of Houston, will probably construct an electric line in this city. H. F. McGregor and John Todd are interested.

SPOKANE, WASH.—C. A. Lunceford, Pres. Adams County Electric Transit Co., is reported as stating that arrangements have been completed to issue $3,000,000 bonds to build the Adams County electric line.

PORTLAND, ORE.—The Portland Consolidated Ry. Co. has under consideration the building of a line to University Park.

PENDLETON, ORE.—The scheme to connect Pendleton with Walla Walla by an electric line is again being agitated. A company is to be organized between capitalists of Pendleton and Walla Walla with a capitalization of $250,000.

SAN DIEGO, CAL.—The San Diego Electric Ry. Co. has petitioned the City Council for permit to extend their lines to Old Town.

COLUSA, CAL.—Capt. W. T. Forsman, of Northern Electric Railway & Navigation Co., has asked Board of Supervisors of this county for a franchise for his road north from here to county line. The application will probably be granted.

LIGHT, HEAT AND POWER PLANTS.

LOCKPORT, N. Y.—The Niagara, Lockport & Ontario Power Co. has increased capital stock from $1,000 to $10,000,000. We are informed by an official that specifications and general plans for construction of the proposed canal are not yet prepared and that nothing of a definite nature will be attempted for several months. The company probably will build under the name of the Iroquois Construction Co. Offices of this company are at 11 Pine St., New York, where Ralph D. Mershon, the Engr., may be addressed. Full particulars were given last week. It was denied at the New York office that work would begin on Jan. 1, as announced by Buffalo papers.

MIDDLETOWN, N. Y.—Philip N. Jackson has announced purchase and reorganization of the Orange County Gas & Electric Co. Stockholders' meeting will be held on Dec. 10. The new company will be known as the Orange Lighting Co.

NEW YORK, N. Y.—The Board of Estimate has adopted a resolution, on the motion of Comptroller Edward M. Grout, to present a bill at next session of the Legislature amending the Charter to permit the city to build an electric plant for the lighting of streets, parks and public buildings. The resolution provides that the bill be sent to Albany as a city bill indorsed by the municipal government. John J. Delaney, Corporation Counsel, will draft the bill. Ex-Commissioner Monroe of the Department of Water Supply, Gas and Electricity estimated the cost of a central plant and distribution stations at about $4,250,000. City now pays about $3,000,000 a year for the lighting of the streets. Nicholas S. Hill, Jr., is Ch. Engr. of the Dept.

KEARNY, N. J.—Common Council has received three estimates for contemplated municipal electric plant. Cost is placed at $47,586 to $55,000 for complete plant, including equipment, poles, wires, lights, etc. Wm. K. Warnock, is Chn Lighting Com. Present contract with Public Service Corporation, of Newark, expires on Aug. 1, 1905. Bids will be advertised for lighting the town.

BALTIMORE, MD.—The Alberger Condenser Co., 95 Liberty St., New York, has been awarded contract for machinery for Maryland Telephone & Telegraph Co.'s plant in South Baltimore. This is the final contract to be let.

CAPE CHARLES, VA.—I. J. Burbage, City Clk., states, according to a report, that bids will be asked soon for the purchase of an electric light franchise.

EMORY, VA.—See under Water-Works.

GEORGETOWN, S. C.—The Georgetown Electric Co. is reported reorganized with H. C. Case, of Philadelphia, Pa., Pres., and L. Mouzon, of Georgetown, Local Mgr. Extensive improvement are contemplated.

NEWBERRY, S. C.—Parr Shoals Power Co. has been incorporated, with $50,000 capital and privilege of increasing to $1,000,000, for the development of water-power at Parr's Shoals and the erection of electric plant. C. H. Cannon, W. K. Sligh and M. G. Houseal of Newberry and C. L. Scott of Greenville, S. C., are reported incorporators.

DALLAS, GA.—The Dallas Light & Power Co. has been organized. $5,000 has been subscribed. Electric plant will be erected. A. J. Cooper is Pres. and E. H. Robertson, Secy.-Treas. Water-works will be erected at a later date.

ATTALLA, ALA.—The Etowah Light & Power Co. has been incorporated, with $24,000 capital. A. L. Dupree is Pres.; J. R. Brown, vice-Pres., and Adolphus Brown, Secy.-Treas. Company has purchased water-power of W. P. Lay on Wills Creek, and will build electric plant to furnish electricity for lighting and power purposes. Company has contract for lighting this town.

PHILADELPHIA, PA.—Bids are asked by David J. Smyth, Dir. Dept. Public Safety, until noon, Dec. 12, for furnishing electric arc lights for 1905.

CARROLLTON, MISS.—R. C. Huston, C. E., Laurel, Miss., Engr. for Carrollton Electric Co., has let contract for 90-HP. engine, direct-connected to Crocker-Wheeler direct current 60 KW. generator, for Carrollton Electric Co.

HATTIESBURG, MISS.—G. L. Hawkins and others have been granted a franchise to erect an electric light plant here.

LAKE PROVIDENCE, LA.—Contract has been awarded to A. B. Sanders, of Shreveport, La., at $37,000 for the construction of water-works and electric-light plant. Arthur Hider, of Greenville, Miss., Engr. Cost, $37,000. Plant will be owned and operated by the town.

TOLEDO, O.—Bids will be advertised for by Board Public Service for lighting city streets for a period ranging from two to ten years. Frank I. Consaul is Ch. Engr. of Board.

CHRISNEY, IND.—The Chrisney Electric Light Co. has incorporated for the purpose of erecting and installing an electric light plant in this town. J. B. Chrisney, J. C. Fella and T. E. Chrisney are directors. Capital, $1,500.

LINTON, IND.—Bids are reported being received by Jenney & Mundie, Archs., 171 La Salle St., Chicago, for construction of a 1-story power house, 90 × 40 ft., for the Southern Indiana Ry. Co., 222 Grand Central Station, Harrison St. and 5th Ave., Chicago. Other power houses are under consideration. Total cost is placed at $500,000.

MUNCIE, IND.—Robert O. Adams, of Indianapolis, Pres. of the Muncie Gas Light & Fuel Co., reports that an artificial gas plant will be erected here soon, to cost $100,000.

BERRIEN SPRINGS, MICH.—James Du Shane of South Bend, Ind., is reported interested in plan to erect power plant or dam here.

MORRISON, ILL.—According to report, Geo. A. Whitcomb, of Morrison, one of the incorporators of the Rock River Hydro Electric Milling & Power Co., has stated that it is proposed to dam Rock River at Snydon, Ill., and construct a power plant of 1,000 to 2,500 HP. Work will be commenced in 1905. No engineer has been employed as yet. Stock is said to have been subscribed, but organization and election of officers not yet completed. Noted on Nov. 24.

MILWAUKEE, WIS.—Aldermanic Board has defeated ordinance to issue bonds for proposed municipal lighting plant. Another ordinance has been introduced by Alderman Smith providing for $150,000 of bonds with which to begin work. It is said that R. W. Hunt & Co., Engrs., Rookery Bldg., Chicago, Ill., have been chosen to make plans for the municipal light plant if new ordinance is passed and approved.

MINNEAPOLIS, MINN.—Ellis R. Dutton, Asst. Cy. Engr., informs us that the following bids were received for lighting city streets during 1905. For incandescent street lights, for lighting, extinguishing and furnishing everything except gas: Pateson Street Lighting Co., Cleveland, O., 2,600 lights, $13.50 per post per year; 5,500 lights, $13.40 per post per year; American Development Co., Chicago, 2,600 lights, $14; 5,500 lights, $13.90. V. A. Simmons, Minneapolis, Minn., $11 per post per year. Minneapolis Gas Light Co. for furnishing gas for street lighting, $0.95 per thousand. Minneapolis General Electric Co., for 1,035 arc lights, moon schedule, 2,000 hours, $82 per light per year; 1,035 all-night lights, 3,650 hours, $94 per year.

KANSAS CITY, KAN.—An ordinance granting to A. J. Yoke, Frank Brown and D. S. Stephens a 20-year natural gas franchise here has been introduced in council. The promoters control gas wells in Chanute and Independence, Kan. D. S. Stephens, Chancellor of Kansas City University, Kansas City, Kan., may be addressed.

MANHATTAN, KAN.—Charter has been applied for by Manhattan Gas Co. Capital, $50,000. It is intended to build a plant and to manufacture gas for city use.

TOPEKA, KAN.—Bids have been received by the Excelsior Coke & Gas Co. for a new generator plant. Estimated cost, $60,000.

HOT SPRINGS, S. DAK.—Board of Managers, National Home for Disabled Volunteer Soldiers, has awarded contract for construction of an electrical plant to A. Franzen, of Des Moines, Ia., at $9,000. Dwyer Bros., of Minneapolis, have contract for water-pipe line, sewer line, plumbing and heating, and for boiler and machinery for power house. Cost, $90,000.

FORSYTH, MONT.—Bids are reported asked until Dec. 10 by C. W. Bailey, Town Clk., for lighting town for 20 years.

ST. LOUIS, MO.—Franchise to pipe natural gas in this city has been applied for by Daniel B. Holmes and associates.

The Union Electric Light & Power Co., 10th and St. Charles Sts., was damaged by fire on Dec. 1. Estimated loss, $45,000.

BELTON, TEX.—The Texas Gas Co. recently secured franchise to construct and operate gas plant. It is reported that the company will at once begin the erection of $25,000 plant. R. T. Chase is Consult. Engr.

EL PASO, TEX.—The El Paso Gas & Electric Co. has been incorporated with $500,000 capital, to supply gas and electric light, heat and power to El Paso, Tex., and to Juarez, Mexico, and other cities. Incorporators are William Barnett Ridgely, of U. S. Treasury Dept., Washington; George F. Goodnow, of Waukegan, Ill.; Fletcher S. Heath, Frank R. Crane, Erward Clifford, Chicago, Ill.; George D. Flory, Charles Bassett, El Paso.

COLORADO SPRINGS, COLO.—The San Luis Valley Irrigation, Land & Power Co. has been incorporated, with a capital of $1,000,000. It will take water from Rio Alamosa River and other streams in Conejos and Rio Grande Counties. A dam probably will be built across the Rio Alamosa. S. S. Bernard, Wm. M. Bainbridge, M. F. Stark, and others are the reported incorporators.

GOLDENDALE, WASH.—City Council is reported to have granted R. T. Robinson a franchise to erect an electric light plant.

NORTH YAKIMA, WASH.—Dr. J. J. Chambers, Eppler Block, Seattle, writes us that he has been granted a 30-year franchise to construct a gas plant in this city. Franchise does not restrict price to be charged for gas. He has made no definite arrangements to finance the project, but will receive propositions from Eastern capitalists to build the plant. North Yakima has population of 8,500. Assessed valuation in 1900 was $1,074,342 and in 1904, $2,406,984.

SEATTLE, WASH.—An election was held Dec. 6 to vote on the question of issuing $250,000 bonds for a municipal light and power plant.

WEST SEATTLE, WASH.—Geo. R. Cooley is stated to have prepared preliminary estimates for the construction of an electric light plant. Nothing more will be done until necessary funds are secured.

TACOMA, WASH.—Councilman W. R. Giblett is interested in municipal electric plant project.

CALISTOGA, CAL.—Bids are asked until Jan. 3 for franchise to construct and operate an electric light and power system here. Frank Teale, Town Clk.

SAN BERNARDINO, CAL.—J. B. Shepherdson, of Colton, is reported backer of the new gas company for which the Board of Trustees has granted a franchise. Articles of incorporation will soon be filed. Capital is $100,000. A plant of 100,000 cu. ft. per day capacity will be constructed. Contract for the gas-making machinery has been let to Barth & MacGillivray of Corona. The Crane Company, of Los Angeles, have the contract for piping. Seth Hartley is interested.

RENO, NEV.—"Gazette" is authority for statement that an electric light plant will be established on Bishop Creek for the generation of power for Tonopah and Goldfield. The plant to be first installed will be of 300 HP. capacity and cost about $300,000. Those interested are Rodney Curtis, of the Denver Tramway Co., Frank J. Campbell and others.

KINGSTON, ONT.—City Council will submit a proposition to voters to raise $150,000 for improvements and extensions to the gas and electric light plants. It is proposed to expend $36,000 on the electric light plant.

LONDON, ONT.—G. M. Miller & Co., of Toronto, are preparing plans for power house to be built near London for the Southwestern Traction Co. Previously reported.

WINNIPEG, MAN.—Council will raise $400,000 for a municipal gas plant. C. J. Browne is Cy. Clk.

BRIDGES.

AMITYVILLE, N. Y.—The contract for building a bridge over the stream at Avon Place, Amityville, has been awarded to New Jersey Bridge Co. of New York, at a cost of $1,800. The bridge is to be of the permanent floor style, 50 ft. long and 6 ft. wide, with four 6 ft. wings.

BINGHAMTON, N. Y.—The Common Council have rejected all bids received Nov. 21 for repairing Tompkins St. bridge, the bids being too high. The Owego (N. Y.) Bridge Co. was the lowest bidder at $7,500.

CORTLANDT, N. Y.—The following bids were received Nov. 29 by Aqueduct Commissioners, 280 Broadway, New York, for building highway bridge superstructure, 200 ft. span, across spillway of new Croton dam in Cortlandt: Brackett Bridge Co., Cincinnati, O., $36,990; Baltimore (Md.) Bridge Co., $40,500; Snare & Triest Co., New York, $44,900; King Bridge Co., Cleveland, O., $54,443; Penn Bridge Co., Beaver Falls, Pa., $41,736; John Kenny, Jr., $42,975; Milliken Bros., New York, $50,959.

BUFFALO, N. Y.—After two reports from the Committee of Bridges to readvertise for new bids for construction of bascule bridge over Buffalo River at Ohio St., the Board of Aldermen have directed Commissioner Public Works to contract with the Pittsburg Steel Construction Co., at their bid of $117,700.

NEW YORK, N. Y.—Bids are asked by Geo. E. Best, Comr. of Bridges, until Dec. 22 for construction of anchorages of Manhattan bridge over East River between Boroughs of Manhattan and Brooklyn.

TRENTON, N. J.—The Berlin Construction Co. received the contract for constructing a new bridge over Pennsylvania railroad at Chambers St., for $49,000.

HARRISBURG, PA.—Bids are asked by J. M. Shumaker, Supt. Pub. Grds. and Bldgs., until Dec. 20, for rebuilding bridge across Nescopec creek, Luzerne County; also for rebuilding substructure and superstructure of bridge across west branch of Lackawaxen River, Wayne County.

PITTSTON, PA.—The work of surveying the new river bridge that is to be erected by Commonwealth across Susquehanna between Nescopeck and Berwick has been started. R. L. Lyons, of Ulster, Pa., is Asst. Engr.

ELKTON, MD.—Cecil County Commissioners have decided to build a new iron bridge at Frenchtown, over Thorp's Run.

WASHINGTON, D. C.—The M St. bridge across James creek canal, S. W., is in a dangerous condition.

ATLANTA, GA.—Mayor Howell has been notified that the Magnolia St. bridge is in a dangerous condition. City Engineer Clayton will make temporary repairs at once.

JASPER, ALA.—County Commissioners have granted the petition for a steel bridge to be erected at forks of Multerry and Sipsie Rivers.

BESSEMER, ALA.—The Birmingtam Railway, Light & Power Co. has let contract for viaduct across railroad tracks at Tenth Ave. to American Iron & Bridge Co., of Roanoke, Va. Work will begin about first of the year. Est. cost, $50,000.

HOUMA, LA.—Bids are asked by H. M. Wallis, Mayor, until Jan. 1 for steel bridge across Bayou Terrebonne.

CHARLESTON, MISS.—The county will issue $40,000 in bonds for new bridges and road improvements. Address County Clerk for information.

NASHVILLE, TENN.—We are informed that there is no truth in statement in which Nashville, Chattanooga & St. Louis R. R. Co. is reported as intending to erect a bridge across Tennessee River at Byrd's Bluff. H. McDonald, City, is Ch. Engr.

MEMPHIS, TENN.—Bids are asked by C. A. Sedinger, Supt. Bridges and Public Works, until Dec. 9 for constructing a bridge across McConnel's creek in 17th district; also for bridge in sixth district.

CADIZ, KY.—It is reported that Trigg County contemplates building a $25,000 bridge over Cumberland River. Address County Clerk.

AKRON, O.—It is stated that the Baltimore & Ohio R. R. Co. has issued orders to repair and strengthen all bridges on Cleveland Terminal & Valley division. Est. cost, $115,000.

BELLEFONTAINE, O.—A bridge on Toledo & Ohio Central railroad just east of here was burned recently. C. Buxton, of Toledo, is Ch. Engr.

CINCINNATI, O.—The following bids were received Nov. 25 by Board Public Service, J. D. Harris, Asst. Clk., for constructing superstructure of plate girder bridge over Miami and Erie canal: Russell Wheel & Foundry Co., Detroit, Mich., $6,566; Modern Steel Structural Co., Waukesha, Wis., $4,225; Grainger & Co., Louisville, Ky., $5,500; New Castle Bridge Co., Indianapolis, Ind., $5,985; Canton Bridge Co., Canton, O., $5,960; Riverside Bridge Co., Wheeling, W. Va., $6,000; C. E. Walker, Bellefontaine, O., $6,...; Walton Iron Co., City, $5,987; Huston & Cleveland ... $4,600; Brackett Bridge Co., City, $3,720 (award[ed con]tract); King Bridge Co., Cleveland, O., $3,980; ... Iron Works Co., Cleveland, O., $5,987; Owego Br[idge] Co., Owego, N. Y., $6,200; Virginia Bridge & Iron Co., [Ro]anoke, Va., $5,780; Joliet Bridge & Iron Co., Jo[liet], Ill., $6,104; N. V. Elliott, Bellefontaine, O., $5,940; [Dre]ier Sons Co., City, $4,322; West Virginia Bridge [Con]struction Co., Wheeling, W. Va., $6,275; Champion [Br]idge Co., Wilmington, O., $6,000.

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CLEVELAND, O.—The city contemplates bu[ilding] two bridges very soon. One is to cross B. & O. t[racks] at foot of Eagle St. hill. W. J. Springborn, Pres. [Board] Pub. Service, can inform.

DAYTON, O.—The Committee on Bridges, Co[uncil]man at Large and City Engineer have received an o[rdi]nance from Council providing for a $200,000 bridge ove[r Mia]mi River at Germantown St. It provides that the ... Railway Co. shall pay one-third of the sum.

DAYTON, O.—An ordinance has been introd[uced] in City Council providing for the construction of ... new bridge at Washington St. F. N. Turner is Cy. E[ngr].

SPRINGFIELD, O.—Board Public Service insp[ected] the bridge over Panhandle tracks on South Fac[tory] St. and found it in an unsafe condition.

AKRON, O.—The following were the lowest bid[ders] for constructing Mill St. viaduct; substructure: Geo. Crisp & Son, City, $42,356; Dan McGarry, City, $44,87[.]; Hunt & Wigley, City, $44,015. Superstructure: Brackett Bridge Co., Cincinnati, O., $42,621; Massillon (O.) Bridge Co., $43,040; Virginia Bridge Co., Cincinnati, $43,... John W. Payne is Cy. Engr. For itemized bids ... substructure see under Contract Prices.

OAKLAND, O.—A resolution was adopted by Council requesting the Realty Syndicate to proceed at once to build a bridge over Carter St.

INDIANAPOLIS, IND.—The Board Public Works has awarded the contract for building Senate Ave. bridge over Fall creek to Collier Bridge Co. for $8,333.

ALPENA, MICH.—It is stated that plans have been prepared by John H. Bloomsheld for a double arch cement bridge to replace the Chisholm St. structure; probable cost $6,000.

DETROIT, MICH.—City Engineer McCormick has prepared new plans for grade separation bridge at Junction Ave.

CHICAGO, ILL.—Bids were opened Dec. 2 by F. W. Blocki, Comr. Pub. Wks., for new bascule structure to replace Archer Ave. bridge. The lowest bids were: Superstructure, Roemheld & Gallery Co., $83,900; foundation, Fitzsimons & Connell Co., $63,000.

MADISON, WIS.—Halle Steenland has given $8,000 for a cement bridge over Yahara River in this city.

FARIBAULT, MINN.—Plans and specifications have been approved by City Council for a steel bridge spanning Straight River on Eighth St. and crossing Great Western and Rock Island railroad tracks.

HASTINGS, NEB.—Bids are asked by W. H. Davis, Clk., Adams County, until Dec. 28 for construction of bridges in this county for year 1905.

ANACONDA, MONT.—The Northern Pacific Ry. Co. will build a five-track viaduct over Harrison Ave. to replace present structure. E. J. Pearson of St. Paul, Minn., is Ch. Engr.

PUEBLO, COLO.—The contract for constructing Main St. viaduct was awarded to Pueblo Bridge Co., City, for $97,460.

SPOKANE, WASH.—A. F. Gill, Cy. Engr., is preparing plans for the construction of a steel bridge, 110 ft. in length, across south channel of river which runs between Howard St. and Havermale Ave. Est. cost, $16,000.

TACOMA, WASH.—H. G. Palmer, G. F. Matthews and Herbert Keyes have brought before the South Tacoma Improvement Club a communication requesting that street car company rebuild 38th St. bridge and Delin St. bridge. Committee was appointed to request the different clubs to take action and report at Central Club.

ASTORIA, ORE.—J. C. Clinton, County Clk., informs us that all bids received Nov. 2 for constructing two bridges in road district No. 12 were rejected.

CHITTENDEN, CAL.—The Pacific Construction Co., San Francisco, has been awarded the contract for a new steel bridge over Pajaro River, near Chittenden. The bridge will cost approximately $10,376.

OAKLAND, CAL.—A resolution was adopted by Council requesting the Realty Syndicate to proceed at once to build a bridge over Carter St. from north line of Yerba Buena Ave. to south line of same.

LEWISTON, IDAHO.—The County Commissioners have ordered plans drawn for a bridge across Delsol slough. The Board also ordered the opening of Conway road in district 21.

LEWISTON, IDAHO.—It is reported that bids will be received by County Commissioners until Jan. 13 for building a bridge across Delsol slough.

BATTLEFORD, N. W. T.—The Canadian Northern will build a bridge at Battleford. Superintendent Pace of Edmonton, Alta, will have charge.

WINNIPEG, MAN.—The Canadian Northern will build a steel bridge over Assiniboin River east of Main St. bridge.

WINNIPEG, MAN.—A large steel bridge will be built over Red River between St. Boniface and Winnipeg the cost to be divided between the two corporations.

BUILDINGS.

NEW HAVEN, CONN.—S. Z. Poli will erect a new theater here.

HARTFORD, CONN.—State Armory Commission has voted to accept plans prepared by Davis & Brooks, 49 Pearl St., and Major Metzger, Associate Archt., of Buffalo, for the proposed city arsenal and armory.

NEW YORK, N. Y.—Bids were received on Dec. 1 by William McAdoo, Police Comr., for constructing (except heating and ventilating systems, boilers and steam piping) the building bounded by Grand, Center and Broome Sts., and Center Market Pl., for Police Department Headquarters. Bids were as follows: P. Gallagher, 11 East 59th St., $691,400; P. J. Carlin Construction Co., 26 Court St., Brooklyn, $673,000; Joseph De Beneditto $815,000; John H. Parker Co., 225 Fourth Ave., $711,890; Thos. B. Leahey, 9 East 42d St., $766,000; Thos. Cockerill & Sons, 147 Columbus Ave., $748,175; P. J. Brennan, 1931 Broadway, $750,000; P. W. Tinn, 163 Columbus Ave., $693,000; L. A. Burke & Son, 401 West 59th St., $699,950; Kelly & Kelley, 59 East 42d St., $748,200; R. E. Henningham, Brooklyn, $703,000; N. W. Ryan, 103 East 23d St., $724,775; R. T. Mahoney, 1135 Broadway, $697,000; Gillespie Bros., 1135 Broadway, $630,000; C...

P... kworth, 415 Hudson St., $719,945; Murphy Construction Co., 5 East 42d st, $699,109; Jos. D. Murphy Co., 11... Broadway, $724,987; John R. Sheehan, 160 Fifth A..., $776,000; Murphy Bros, 489 Fifth Ave., $728,929.

...EW YORK, N. Y.—Bids were received by Fire Com-m...oner on Nov. 29 for erecting building for engine company on 138th St. Three lowest bidders were: T. B. L...ny, of East 42d St., $38,765; A. Nugent & Son, 508 E... 117th St., $38,590; Geo. Hildebrand, 38 Park Row, $...946.

... J. O'Brien, 835 Sixth Ave., was lowest bidder, at $...0 for plumbing, gas and electric systems for this building.

...ds are asked by C. B. J. Snyder, Supt. School Bldgs., ... Education, until Dec. 12 for general construction of public school 149, on Sutter Ave., Boro. Brooklyn.

...ds also are asked until Dec. 12 for installing electric equipment in school 132 at Conselyea St. and Manhat-... Ave., Boro. Brooklyn.

...use & Sloan, Archs., 11 East 43d St., will give out ... this week, we are informed, for brick, iron and ... casino to be erected at Broadway and 96th St. ... & Jackson, 49 Wall St., are owners. Total cost will be about $150,000.

Contracts will be awarded in few days by Gillespie & ..., 1123 Broadway, Archs., for a 4-story store and ... building for Batch, Price & Co., 316 Fulton St., Brooklyn.

NEW YORK, N. Y.—Plans have been filed by E. Greene, Arch., 5 Beekman St., for 6-story brick lofts and stores, 25 × 120 ft., on Fulton St. and Ann St. Dodge & Olcott, 88 William St., owners. Cost, $60,000.

By Sass & Smallheiser, Archs., 23 Park Row, for two 5-story brick flats, 50 × 87 ft., at Seventh Ave. and 49th St., for Parnass & Dellon, 258 East Broadway. Cost, $90,000.

By M. J. Garvin, Arch., 3307 Third Ave., for two 6-story brick tenements, 26 × 90 ft. and 39 × 87 ft., at 157th St. and Elton Ave., for Thos. E. Malcomb, River Ave. and 167th St. Cost, $80,000.

By same architect, for five 5-story brick tenements, 30 × 95 ft., on 152d St., for D. & E. Robitzek, River Ave. and 137th St. Cost, $150,000.

By Schwartz & Gross, Archs., 35 West 21st St., for eight 6-story brick tenements, 38 × 87 ft., on 136th St., for H. Strauss, 73 East 90th St. Cost, $280,000.

By L. A. Goldstone, Arch., 110 West 34th St., for a 6-story brick flat, 105 × 95 ft., at Riverside Drive and 127th St., for Colvert Construction Co., 3137 Broadway. Cost, $175,000.

By G. F. Pelham, Arch., 503 Fifth Ave., for five 6-story brick flats, 40 × 86 ft., on 144th St., for Northwestern Realty Co., 135 Broadway. Cost, $210,000.

By G. F. Pelham, for five 5-story brick flats, 40 × 90 ft., on Seventh Ave., near 147th St., for E. Rosenberger, 137 West 116th St. Cost, $236,000.

FORT SLOCUM, N. Y.—Bids are asked until Dec. 27 for constructing brick double barrack. W. J. Davis, Q. M. (Advertised, Engineering News.)

NIAGARA FALLS, N. Y.—The International Building Co., of Niagara Falls, has been incorporated with $25,000 capital. James S. Simmons, W. P. Baker and Charles R. Delmage are organizers. The company will build the proposed new apartment house at Third St. and Buffalo Ave. It will cost $100,000.

ALBANY, N. Y.—The State Lunacy Commission will select site for the new State Insane Hospital in Northern New York. The last Legislature appropriated $500,000 for the purchase. Sites at Cambridge, Greenwich, Shushan, Salem, Comstock, and Whitehall, all in Washington County, have been offered the state.

ROCHESTER, N. Y.—W. J. Brockett, 243 Powers Bldg., has plans for a 3-story administration building, 46 × 100 ft., with two wings, 46 × 117 ft., and a chapel, 40 × 77 ft., to be erected on Lake Ave. for St. Anne's Old Ladies' Home. Cost will be about $80,000.

TROY, N. Y.—W. L. Wollett, 57 State St., Albany, N. Y., is architect for proposed $100,000 addition to the Y. M. C. A. building, Troy, previously reported. It will be six stories, about 50 × 130 ft., first story front of Vermont marble, upper stories of pressed brick. The basement will contain an electric light plant.

TRENTON, N. J.—World's Fair Commissioners have decided to remove the New Jersey building at the World's Fair to Sea Girt, N. J. If Legislature makes an appropriation it may be reconstructed at Sea Girt.

McKEESPORT, PA.—Bids are asked by C. P. Fiedler, Secy. Bd. of Education, until 5 p. m., Dec. 19, for mechanical furnaces, hot air heating and ventilating system, thermostatic control, to be installed in the four new school buildings contemplated in Christy Park, Versailles Ave., Grandview Ave. and the Fawcett plan. Sketches of plans for the various buildings can be seen at offices of the following architects: Robinson & Winkler, Park Bldg., Pittsburg; Thos. J. Herron, Publication Bldg., Pittsburg; E. J. Carlisle & Co., Westinghouse Bldg., Pittsburg, and H. J. Lohman, National Bank of McKeesport Bldg., McKeesport.

SHAMOKIN, PA.—W. U. Jury will have plans ready for estimates about Dec. 15 for two 3-story, 15-room school buildings, 90 × 110 ft., it is reported. To be of press brick and terra cotta with stone trimmings, iron, steel and wire work, fireproofing, concrete floors, slag roofing, metal partitions and cornices, floor tiling, gas and electric fixtures, heating and ventilating system. Cost will be about $42,000 each. John Cooper is Pres. School Board; F. W. V. Lorenz is Chn. Building Com.

SOMERSET, PA.—Somerset Trust Co., Geo. R. Scull, Pres., will erect bank building here. Cost, $50,000. Plans probably will be adopted at meeting of bank officials on Dec. 22.

PHILADELPHIA, PA.—It is reported that a committee will be appointed by Col. A. J. Logan, Pres. National Guard Association of Pennsylvania, to secure appropriations for state armories. Bill may be introduced in next session of Legislature providing for $1,000,000 appropriation. Total amount needed is $4,000,000.

PHILADELPHIA, PA.—Contracts for the erection of three 15-division schools, one each in the 27th, 28th and 33d Wards, were awarded to Henderson & Co. by the Property Committee of the Board of Public Education. Cost of the buildings will be $250,700.

PITTSBURG, PA.—McCollum & Dowler, Archs., Bank for Savings Bldg., are said to have been commissioned to prepare plans for a large addition to the Colonial Hotel, Penn Ave. and Sixth St. It would be six stories, 20 × 160 ft., of slow-burning terra cotta fronts, iron roof, tile floors, elevators, iron work, steam heat, gas and electric light, etc. Estimated cost, $250,000 to $300,000.

PITTSBURG, PA.—Alden & Harlow, Archs., Farmer's Bank Bldg., City, are making revised plans for warehouse and office building addition for Central District & Printing Telegraph Co., at Seventh Ave. and Montour Way. Brick and steel, fireproof construction, nine stories, 66 × 64 ft. Owners recently commissioned Engineers R. W. Hunt & Co., Monongahela National Bank Bldg., to prepare plans for complete power plant. Cost, $300,000.

Edward Stotz, Arch., Monongahela Bank Bldg., will receive bids until Dec. 11 for erecting three warehouses at 1627-1633 Liberty Ave., for Pittsburg Brewer's Supply Co. Buildings will be of brick, fireproof, 72 × 100 ft., six stories.

Chas. Bickel, Arch., 524 Penn Ave., will receive bids for erecting two warehouses at First Ave. and Wood St., for Hartje Paper Mfg. Co. Buildings will be of steel and stone, fireproof, 70 × 81 ft, ten stories.

PITTSBURG, PA.—Palmer & Hornbostel, the architects for the Carnegie Technical Schools, announce that they will have the first set of plans ready for contractors to bid on about Dec. 15. The Board of Trustees of the Carnegie Institute will award all contracts. The first building is to be started in January, 1905, if it is possible to have plans in shape to begin operations.

WASHINGTON, PA.—Bids are asked until Jan. 25 for construction of post office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

ANNAPOLIS, MD.—Bids are asked by the Navy Department, Washington, D. C., until 12 noon, Dec. 14, for a building for the U. S. Naval Academy hospital. Ernest Flagg, Arch., 35 Wall St., New York, N. Y. A set of drawings may be obtained at the architect's office by depositing $15, $10 of which will be refunded on their return. Paul Morton, Secy. Dept.

BALTIMORE, MD.—James E. Ingram, 109 Hanover St., may erect a 6-story lodging house in the rear of Hanover and Lombard Sts. Brick, stone and steel, fireproof. Cost would be about $100,000.

James Ingram has awarded contract to Wells Bros. & Co., 344 North Charles St., for construction of nine warehouses at Lombard and Hanover St. Plans by Ellicott & Emmart, Archs., 323 North Charles St. Warehouses will be five stories high with basements, 160 × 175 ft. Heating systems, 10 elevators and nine pavement lifts not included in contract.

Charles Gilpin, of Baltimore, has the contract to erect a 7-story hotel at Baltimore and Hanover Sts., for the Caswell Hotel Co. Cost, $270,000.

Bids are asked until Jan. 4 by Col. W. A. Jones, Engr., for erecting a keeper's dwelling at Cape Lookout Light-Station, N. C. (Advertised, Engineering News.)

BALTIMORE, MD.—The Merchants' Hotel Co. has selected Wyatt & Nolting, Archs., Builders' Exchange Building, 2 East Lexington St., to prepare plans and specifications for hotel building to be erected on Howard St., near Baltimore St. Building will be seven stories high with basement. Cost, about $125,000. Charles Gilpin, 17 East Saratoga St., will be the builder. J. A. Hughes, care of Daniel Miller Co., 109 Hanover St., is Chn. of Bldg. Com.

WASHINGTON, D. C.—The "Star" states that the District Commissioners have decided that all the plans for the proposed Police Court building, submitted in the recent competition, be rejected and that a new competition be held, limited to the local architects who participated in the former competition. Also that no architect be allowed to submit more than one design, and that the cost of the building be limited to $75,000, less the fees of the architect. Plan for District Police Court building submitted by Henry Simpson, 735 15th St., N. W., had been accepted, but was rejected as he had submitted two sets of drawings.

Charles W. Holmes writes us that definite details regarding competitive plans for a group of buildings at George Washington University are not yet settled upon. Five architects have been appointed to prepare plans. The jury of award consists of the Park Commission and Bernard R. Green, the District Engr. As noted last week, the University is now known as the Columbian University. The George Washington Memorial Building will cost $500,000.

WASHINGTON, D. C.—It is announced that one of the first bills that will be laid before the Senate for consideration after the opening of Congress will be the one providing for the new three-department building. Senator Fairbanks, Chn. of Com. on Public Buildings and Grounds, has charge of the bill. The building, if erected, will be the home of the Department of State, Department of Justice and the Department of Commerce and Labor. It will cost $7,000,000 to secure the site and erect the building. It is proposed to place the new structure on the square immediately west of Lafayette Park, and across Pennsylvania Ave. from the War, State and Navy building.

Bids will be called for soon for superstructure of House of Representatives office building. $2,000,000 has been appropriated by Congress, as previously noted. Excavation is now being done by the Brennan Construction Co. Approximately 55,000 yds. have been removed; about 45,000 yds. yet have to be removed.

Elliott Woods, Supt. of Capitol Bldgs. and Grounds, has charge of plan to erect Senate office building.

EMORY, VA.—New central building, laundry, waterworks system, etc., is planned for Emory and Henry College. Estimated cost, $75,000. Dr. L. L. H. Carlock, Abingdon, Va., and Dr. R. G. Waterhouse, of Emory, are on committee.

ELMGROVE, W. VA.—Bishop P. J. Donahue, Wheeling, W. Va., has commissioned Thomas C. Kennedy, Arch., 331 North Charles St., Baltimore Md., to prepare plans and specifications for buildings for the Elm Grove Industrial School. Report states that main building will be five stories high with two 4-story wings, 100 × 200 ft. Annex building containing chapel and workrooms will be two stories high; 40 × 230 ft.; brick with stone or terra cotta trimmings, concrete foundation, steel beams and girders, general equipment, electric wiring and fixtures, sanitary plumbing, steam heating system. Cost, about $200,000.

WILMINGTON, N. C.—Hook & Sawyer, Archs., Charlotte, N. C., have prepared plans for a 100-room hotel, to be erected at Wrightsville Beach for W. J. Moore, of Charlotte, N. C.

CHARLOTTE, N. C.—W. S. Alexander, P. M. Brown, T. W. Hawkins and associates have organized the Highlands Hotel Co., with an authorized capital of $200,000, to erect a 3-story hotel, 99 × 183 ft. Cost, about $150,000.

EATONTOWN, GA.—Plans prepared by J. W. Golucke, Atlanta, have been accepted for the Putnam county court house, at Eatonton. $30,000 of bonds have been raised. Bids for the construction are being taken.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

PENSACOLA, FLA.—It is reported that C. L. Stone, G. P. A. of the Louisville & Nashville Railroad Co., Louisville, Ky., and W. S. Isaacs, of Chicago, Ill., are interested in project to erect a 300-room hotel near here.

PRATTVILLE, ALA.—Plans and specifications will be received by Board of Revenue of Autauga County until Dec. 14 for a fireproof court house, to cost $35,000, and a fireproof jail, to cost $15,000. G. S. Livingston, Judge of Probate.

BIRMINGHAM, ALA.—City Council and the Board of Education joint committees will receive bids about Dec. 20, it is reported, for erecting the high school at 24th St. and Seventh Ave. The plans, as prepared by Breeding & Whilden, of Birmingham, provide for a 4-story pressed brick and stone building. $125,000 is available. J. H. Phillips is Secy. Com. Previously noted.

JACKSON, MISS.—Convention Board of Baptist Church held session here recently. It was proposed that $100,000 be raised for new building for Mississippi College.

SARDIS, MISS.—The Board of Supervisors will consider plans, etc., Jan. 2 for rebuilding county court house. R. P. Eckes may be addressed.

NEW ORLEANS, LA.—Plans and specifications will be asked by the courthouse commission for the erection of $800,000 courthouse. It will be erected on square bounded by Conti, St. Louis, Chartres and Royal Sts. Bernard McCloskey is Pres. of Comn., at 1201 Hibernia Bank Bldg. There will be three prizes, $5,000, $2,500 and $1,000. Architects all over the country will be invited to enter the competition. Four months are to be given for the drawing of the plans, the competition closing on April 5.

POINT A LA HACHE, LA.—Bids are asked until Dec. 13 for repair work on courthouse, to consist of ceiling throughout, new metal roof, repairs to cornice and slate roof; also painting of all woodwork. F. C. Meyers, Sheriff; Joseph Savoie, Secy. of Com.

FRANKLIN, TENN.—Plans have been prepared by C. K. Colley, Arch., Chamber of Commerce, Nashville, for a new jail building for Williamson County. Cost, $10,000.

HENDERSON, KY.—Bids are asked until Jan. 9 by James Knox Taylor, Supervising Arch., Treasury Dept., for complete construction of a post-office.

LOUISVILLE, KY.—The Louisville Interurban Railroad Co. has been granted a permit for a 3-story brick and stone passenger station, to be erected on Jefferson St. Cost, $65,000.

MANSFIELD, O.—Bids are asked until Dec. 17 for purchase of $10,000 of library bonds. H. Brown, Mayor.

AKRON, O.—Plans and specifications will be wanted for the new Summit County court-house, for which $275,000 of bonds was recently voted. M. D. Buckman is County Audr.

CINCINNATI, O.—Chas. L. Harrison writes us that steel skeleton frame building, 100 × 168 ft., and 35 × 84 ft., will be erected at Elm and Fourth Sts. Either heating plant alone will be required or electric plant complete, with 200 KW. capacity. Building will be 12 stories high, with two basements. Cost, over $300,000. Gustav Drach, Union Trust Bldg., is Arch. Estate of L. B. Harrison is owner. Mentioned last week.

ANDERSON, IND.—F. M. Goethwright, of Chicago, at $43,300; Standard Construction Co., Chicago, $44,770; and Hanson Bros., Chicago, at $44,944, were three lowest bidders for constructing post-office in this city.

CHICAGO, ILL.—Mandel Brothers will erect a 12-story building, at 111-115 Wabash Ave., at estimated cost of $500,000. Work will begin early next year.

Building and Grounds Committee of the Board of Education has recommended an appropriation of $350,000 for a manual training high school, which is to be erected on the site of the old North Division High School, at Division and Sedgwick Sts.

William L. De Beck will build 12 3-story dwellings at Graceland Ave. and Sheridan Ave. Cost, $250,000.

Oscar Cobb & Son, Archs., 85 Dearborn St., are preparing plans for an $80,000 theater and hotel building, to be erected at South Chicago for John M. McCabe, 9151 Commercial Ave.

Holabird & Roche, Archs., Monadnock Block, are preparing plans for an office building, to be built at La Salle and Madison Sts. for the Illinois Life Insurance Co., James W. Stevens, Pres., 134 Monroe St. It will be 20 stories, with exterior probably of pressed brick and terracotta, and all the latest improvements. The details have not been fully determined.

DEKALB, ILL.—Bids are asked until Jan. 4 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for construction complete of post-office here.

WINONA, MINN.—Y. M. C. A. has voted to erect a $50,000 building to replace present one at Fifth and Johnson Sts. R. E. Squires is Secy.

ALBERT LEA, MINN.—Bids are asked until Jan. 31 for construction complete of post office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C. **(Advertised, Engineering News.)**

KANSAS CITY, KAN.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until Jan. 3 for painting, etc., of post-office here.

EMPORIA, KAN.—State Normal School Board of Regents will ask Legislature for appropriation for two new buildings: a $70,000 science building and a $60,000 men's gymnasium. Electric light plant, to cost $12,000, may be installed soon.

ST. LOUIS, MO.—Herbert C. Chivers has completed plans for proposed building for People's United States Bank of St. Louis at University Heights. It will cost $500,000.

New schools are under consideration. W. B. Ittner is Comr. Schools.

Widmann, Walsh & Boisselier, Archs., Wainwright Bldg., have plans for an 8-story office building, 125 × 103 ft., for the Kinlock Telephone Co., H. L. Reber, Century Bldg. Fireproof construction, modern plumbing, combination light fixtures, structural and ornamental iron and steel work, etc. Cost, $400,000.

John B. C. Lucas, owner of the property at the southwest corner of Broadway and Olive St., has announced that plans are being considered for the erection of a modern 10 or 12-story office building, at the expiration of present leases.

Weber & Groves, Archs., Stock Exchange Bldg., will receive bids in spring for a 7-story apartment building, 45 ? 160 ft., for the St. Louis Improvement Co., Mr. Donk, Secy. and Treas., care Donk Bros.' Coal Co. It will cost about $600,000; of stone and steel, fireproof, modern plumbing, combination light fixtures, etc.

HOT SPRINGS, ARK.—C. L. Thompson, Arch., Little Rock, has secured contract for making plans for a Baptist church, at Hot Springs. It will cost $75,000. Rev. W. T. Amis is pastor.

FORT WORTH, TEX.—Winfield Scott may erect an annex to the Metropolitan Hotel at a cost of $100,000. It will be a 3-story brick and contain 108 rooms.

TACOMA, WASH.—Permit has been issued to School Board for new high school. Cost, $150,000. It is to be three and four stories, 300 ft. long, 270 ft. wide, and 60 ft. high. F. H. Goss is contractor. J. D. McCabe will be Building Supt.

WALLA WALLA, WASH.—Goldie Bros., 336 23d St., Portland, Ore., was lowest bidders for construction of two double barracks at Fort Walla Walla, we are informed by the Quartermaster. Bid was as follows for each building: Construction proper, $48,440; plumbing, $6,399; heating, $4,930; electric wiring, $1,100; total, $60,869.

SPOKANE, WASH.—Sisters of Sacred Heart Hospital will erect a new hospital building, to cost $000,000.

OLYMPIA, WASH.—State Board of Control will recommend appropriations by the coming legislature for needs of institutions in charge of board as follows: Two detached wings to the Western Washington Hospital for the Insane at Steilacoom, each to cost approximately $55,000; Eastern Washington Hospital for the Insane, one new building, $55,000; $50,000 will be asked for hospital for feeble-minded; $22,500 for hospital building at Soldier's Home at Orting.

SEATTLE, WASH.—An election was held Dec. 6 to vote on the question of erecting a city jail, municipal court and emergency hospital, to cost $175,000.

LEADVILLE, COLO.—Bids are asked until Dec. 30 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for furnishing heating apparatus complete in place for post-office in this city. (Advertised, Engineering News.)

DENVER, COLO.—Bids are asked until noon, Dec. 17, by Library Commission, for construction of boiler-house of public library. Alten Randolph Ross, 542 Fifth Ave., New York, is Arch. Frank W. Crocker, Chn. Bldg. Com. Plans furnished by architect upon receipt of $15, $10 of which will be refunded upon return of plans and specifications.

PASO ROBLES, CAL.—The Paso Robles Hotel Co. will erect bath-house adjoining the hotel. Cost, between $75,000 and $100,000.

OAKLAND, CAL.—Board of Education will commission John Galen Howard and Arthur Brown, Jr., Archs., to co-operate with the Board in planning buildings to be erected for school purposes with the $960,000 bonds issued for that purpose.

LAJOLLA, CAL.—Plans for seaside biological laboratory, which the citizens of San Diego are to erect at La Jolla, have been completed by John Galen Howard, Supervising Arch. for University of California, and forwarded for approval to the Southern California Association, that has undertaken the work. Actual building will be commenced as soon as the plans are approved. Cost, $30,000.

FRESNO, CAL.—Bids are asked until Jan. 19 for construction of post-office (except heating apparatus, elevator, electric conduits and wiring). James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

OAKLAND, CAL.—Board of Education has awarded commissions for plans for new schools as follows: Lincoln School, that will cost $145,000; Sutton & Weeks, Archs. Franklin School, $145,000; Stone & Smith. Prescott School, $145,000; Bliss & Faville. School at 39th and Market Sts., to cost $72,000; Soderberg & Dickey, Archs. Grove St. School, $28,000; F. D. Voorhees. School to be located on Shattuck Ave., near 60th, cost $72,000; Sutton & Weeks. Grant School addition, $81,000; Stone & Smith, Archs. Lafayette School addition, $38,000; F. D. Voorhies. The first school building to be erected will be the Franklin.

SACRAMENTO, CAL.—Bids are asked until 8 p. m., Dec. 12, by C. M. Prodger, Cy. Treas., for purchase of $200,000 of high school bonds.

OGDEN, UTAH.—Bids are asked by Treasury Dept., Washington, D. C., until Jan. 5th for construction (except elevator, heating apparatus and conduit and wiring) of the post-office and courthouse. James Knox Taylor, Supervising Arch.

MOSCOW, IDAHO.—Professor H. T. French, of the Idaho Experimental Station, states that the next legislature will be asked for appropriation of $50,000 for erection of necessary buildings at the agricultural college at this place.

CALGARY, N. W. T.—T. J. S. Skinner will erect building to cost $150,000. Five stories; 150 bedrooms. F. J. Lawson, Victoria, B. C., is Arch.

VICTORIA, B. C.—Bids are asked until Dec. 20 for construction of a 7-story hotel for the Canadian Pacific Ry. Co. F. M. Rattenbury is Arch.

TORONTO, ONT.—Darling & Pearson and E. J. Lennox, Archs., also H. O. Chapman, 520 Fifth Ave., New York, are reported to be preparing plans for new Union passenger station. Estimated cost, $3,000,000.

Board of Control will consider plan to erect $300,000 Exhibition buildings.

Government will erect $180,000 Physics Building at University of Toronto. Plans have been prepared.

WATER SUPPLY AND IRRIGATION.

FRANKLIN, N. H.—Referring to projected extensions of city water supply we are informed that efforts are being made to secure a ground water supply and pipe test wells are being driven, with this end in view. Frank L. Fuller, 12 Pearl St., Boston, Mass., is Engr.

COHASSET, MASS.—It is stated that Cohasset Water Co. is to extend its service line and connect its pipes with the Scituate Water Co.'s pipes.

OXFORD, MASS.—We are informed that Oxford Water Co., A. M. Chaffin, Pres., expects to have experts locate a water supply soon and submit plans for a system.

HOLDEN, MASS.—Henry W. Warren, Chn. Water Comrs., writes us under date of Dec. 2 that proposals for cast iron pipe for new town gravity water system were to be opened Dec. 8. Pipe laying is to be commenced next spring. Supply is to be taken from Muschopange Lake, 2½ miles distant. Est. cost of works is $50,000.

LAWRENCE, MASS.—At its meeting Nov. 30 the Water Board voted to call for bids for 5,000 ft. 6-in., 2,000 ft. 8-in., and 1,000 ft. 4-in. cast-iron pipe.

NEW BEDFORD, MASS.—Water Board has awarded contract for furnishing 226 tons 3 to 12-in. pipe and five tons special castings to Warren Foundry & Machine Co., Phillipsburg, N. J., for $5,970.

LOCKPORT, N. Y.—Special election may be held Dec. 13 to vote on the Niagara River and power canal water supply propositions. The former calls for a municipal supply at a total cost of $800,000 and the latter calls for a supply from the proposed power canal at the rate of two cents a thousand gallons.

ITHACA, N. Y.—City Water Board is stated to have commenced condemnation proceedings against the Ithaca Water-Works Co. in order to obtain municipal control of the system.

MEDINA, N. Y.—Village meeting was to be held Dec. 1 to decide on matter of new water supply for this place.

NEW YORK, N. Y.—Board of Estimate has taken up report on additional water supply and referred it to commission of engineers. The report contains the plan formulated some time ago by Chief Engineer Birdsall, which proposes taking water from the Catskill and Schoharie watersheds and from the Esopus watershed. The cost of the scheme would be about $90,733,000, and the supply obtained about 300,000,000 gallons daily.

NEW YORK, N. Y.—Following bids were received by Aqueduct Commissioners Dec. 6 for excavating and laying water pipes along Jerome Ave. in connection with New Jerome Park reservoir: Jos. Gallo, 127 Mulberry St., $19,400; Jno. Cornwell, 69 East 127th St., $26,480; Norton & Dalton Const. Co., 27 West 140th St., $17,970; J. B. McCall, 13 Park Row, $24,081; T. N. Lewis, Jerome Park, $30,570; Abbott Gamble Co., 32 Broadway; $28,255; Snare & Triest, 39 Cortlandt St., $19,172.

NORWICH, N. Y.—We are informed that New York Continental Jewel Filtration Co. has contract for filtration plant of Norwich Water-Works Co., and that no supplies are desired.

SENECA FALLS, N. Y.—We are informed that preparations are under way for submission to citizens of matter of municipal water-works. Fred Isenman is Village Pres.

ASBURY PARK, N. J.—We are informed that Council has under advisement an increase of water supply either by storage reservoir or by purchase of surface water from private company. Present supply is from artesian wells, and there is a large surplus ten months in the year. No action had been taken at time of writing, Dec. 5. Jno. L. Coffin is Supt. W.-W. and Sewers.

BRIDGEBORO, N. J.—Property owners are reported to have voted to establish water-works.

STANHOPE, N. J.—Town is stated to have voted against issuing $10,000 of bonds for installing water-works. Election was held Nov. 18.

ALTOONA, PA.—Councils have passed ordinance authorizing Water Commissioners to appropriate Tipton Run for water supply purposes.

McKEESPORT, PA.—We are informed that this city will advertise for bids in about ten days for drilling ten wells, to cost $5,000. T. H. Verner is Supt. W.-W.

PITTSBURG, PA.—Ordinances providing for the letting of contracts for building filtration plant have been introduced in the Council. The ordinances provide for the letting of ten contracts, as follows: (1) For filters, basins and appurtenances, $3,600,000; (2) for filter water basins and appurtenances, $480,000; (3) for river crossings and constructions at Brilliant pumping station, $220,000; (4) centrifugal pumps, engines, etc., $150,000; (5) boilers, economizers, piping, etc., $70,000; (6) sand washer pumps, electric machinery and auxiliary equipment, $120,000; (7) pumping station and appurtenances, $350,000; (8) river wall, intakes and connections, $230,000; (9) pumping engines and boilers, $250,000; (10) for pipe line and appurtenances from Highland reservoir to the South Side, $530,000. E. M. Bigelow is Dir. Pub. Wks.

STEWARTSTOWN, PA.—Contract for constructing water-works for Stewartstown Water Co., bids for doing which were received Nov. 25, has been let to W. G. Fritz & Bro., Dover, N. J., for $9,500. Other bids received were as follows: McKay Engineering Co., Baltimore, Md., $9,948; Philadelphia Wrecking & Construction Co., Baltimore, Md., $11,813; Neff Co., New York, $10,900; Ford & Waldo, New York, $12,500; Broks Co., Fairmount, W. Va., $9,830; Stone Grossart Co., Philadelphia, $10,863; Peninsular Construction Co., Pheobes, W. Va., $9,997.

BALTIMORE, MD.—City Water Board is reported to have selected the Keyworth site for the proposed new high service reservoir in the northwestern section of the city. The proposed reservoir is to have capacity of about 245,000,000 gallons and will cost about $340,000. Force mains to connect it with pumping station will cost an additional $65,000. Alfred M. Quick is Engr. Water Board.

Geo. W. Horton, Ch. Fire Department, has submitted estimate to the Fire Board setting cost of a pipe line system and necessary appurtenances in the center of the city at $810,850. Of this sum $456,250 is for pipe line and hydrants and $180,000 for pumps, gas engines and electrical appliances.

WILMINGTON, DEL.—We are informed that owing to difficulties with the owners of water rights it is not likely that anything will be done this season toward the projected filtration plant, bids for which were received some time ago. T. A. Leisen is Ch. Engr. Water Dept.

WASHINGTON, D. C.—Power house, cement mixing plant, elevated conveyor and other machinery of the contractors which are constructing the new filtration plant near Soldiers' Home are reported to have been destroyed by fire Nov. 30.

EMORY, VA.—Committee, L. L. H. Carlock, Abingdon, Va., Member, is to raise $77,000 to equip Emory and Henry College with water system, electric light plant and a central building.

CLARKSBURG, W. VA.—Company may be organized here to put in water-works, supply to be obtained from Buckhannon River.

SAVANNAH, GA.—Chas. A. Price writes us that bids will be opened by J. M. Kinsey, Supt. W.-W., Dec. 14 for 6,500 ft. cast-iron water pipe and fittings.

TIFTON, GA.—Citizens have voted adversely to $15,000 bond issue for water-works.

GRACEVILLE, FLA.—We are informed under date of Nov. 29 that contracts were to be awarded in a few days for water-works of Graceville Electric Light & Water Co., to consist of well of 500 gallons capacity per minute, 100-ft. steel tower and tank, 100,000-gallon reservoir, 2,000 ft. 8-in., 3,000 ft. 6-in. mains; also a quantity of 4, 3 and 2-in. mains. Works will cost about $15,000. Ludwig & Co., Atlanta, Ga., are Des. Engrs., and M. B. May is official in charge.

ENSLEY, ALA.—It is reported that matter of securing water supply from Warrior River, 12 miles distant, will be taken up again. It has been estimated that necessary 24-in. main could be laid for about $150,000.

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LUMBERTON, MISS.—R. C. Huston, C. E., Laurel, Miss., has been appointed designing and supervising engineer in charge of construction of water-works for this place to cost $20,000. Bond issue has been sold, and work is to commence at once.

LAKE PROVIDENCE, LA.—Council has let contract for complete system of water-works and electric light plant to A. B. Sanders, Shreveport, La., for $37,000. Contractor is stated to have already purchased machinery.

NEW ORLEANS, LA.—It is reported that Geo. G. Earl, Gen. Supt. Sewerage and Water Board has recommended that contract for machinery for the water stations and other like branches of the water and drainage systems be awarded to William Tod Co., Youngstown, O. Contract involves over $500,000. Bids were opened Nov. 9.

DYER, TENN.—Municipal water-works discussed.

LEBANON, TENN.—City officials are reported to be considering purchase of new pumps to cost about $2,000. A. M. McClain is Mayor.

MEMPHIS, TENN.—Referring to matter of laying water mains in lumber district of North Memphis at cost of $15,000, we are informed that Memphis Artesian Water Department, L. Simpson, Gen. Supt., has complete organization for laying pipe and will not ask bids for the work.

SMITH'S GROVE, KY.—System of water-works is to be inaugurated here shortly, according to reports, supply having been obtained from wells.

ASHTABULA, O.—We are informed that election to vote on bond issue for construction of water-works was postponed from Nov. 28 to Jan. 9. Lewis A. Amsden is Cy. Engr.

BARNESVILLE, O.—Board Public Affairs is stated to have let contracts, as follows, for new water system, bids for which were opened Nov. 15: Pipe, Massillon Iron & Steel Co.; reservoir, Fowles & Wilson, Barnesville, $[illegible]000; hydrants, etc., R. D. Wood & Co.; pump, Fairbanks, Morse & Co., valves, Pittsburg Mfg. Co. For power house and stack, H. T. Day & Co. bid $5,000.

EAST CLEVELAND, O.—Bids are asked by H. B. Chapman, Village Clk. of East Cleveland, Schofield Bldg., Cleveland, until Dec. 19 for purchase of $10,000 of water bonds, proceeds of which are to be used for laying water pipe.

DAYTON, O.—Two plans have been submitted to Board Public Service by Chas. E. Rowe, Supt. W.-W., for high pressure water system for elevated parts of city. One of these provides for increasing capacity of present pumping station at a cost of $112,000, and the other calls for the construction of a new plant near Mad River, at a cost of $112,000.

NILES, O.—Board Public Service is to ask Council for authority to contract for installation of Miner air lift system to supply water from the city wells.

NEWARK, O.—Ordinances have been before Council to appoint a committee to set a value on the works of Newark Water Co., and to repeal ordinance passed last May to issue $300,000 of bonds to build a municipal plant. Board of Public Service has reported that proposed extension of water mains which has been petitioned for would cost $9,000.

SANDUSKY, O.—Bids are asked by Board Public Service until Dec. 14 for furnishing material and labor necessary for trenching, refilling and resurfacing for laying about 3,442 lin. ft. of water pipe. Bernard J. McCrory, Clk.

EVANSVILLE, IND.—Board of Water-Works is stated to have decided to accept offer of C. W. Kearns for completing the intake improvement at the pumping station. According to press reports Mr. Kearns agrees to take up the work where the former contractor left off, and to finish it for $25,813.

SPENCER, IND.—Water-works to cost about $16,000 may be installed here.

BLOOMINGTON, ILL.—Superintendent of water-works and the city engineer have been instructed to investigate as to the practicability of piping Miller Park Lake water to a connection with the city mains.

SHEFFIELD, ILL.—Pump house of Rock Island Ry. at this place is reported to have been destroyed by fire with loss of about $5,000.

MILWAUKEE, WIS.—Following bids were received by Board Public Works Nov. 29 for pumping engine for North Point Pumping Station: Filet & Stowell Co., $37,900; Wm. Tod Co., (A) $68,200, (B) $12,000, (C) $16,000; Allis-Chalmers Co., $60,000; Brown Corliss Engine Co., $64,500.

OTTUMWA, IA.—Contract for constructing two 24-in. water mains under the river has been let to McCarthy Improvement Co., Davenport, Ia., for $10,240.

MUSCATINE, IA.—Bids are asked by Board Trustees of Water-Works until Jan. 3 for furnishing, erecting and connecting in new pumping station a 3,000,000-gallon pumping engine and a 5,000,000-gallon pumping engine, together with 400-HP. heater, condenser, auxiliary pumping engines, suction and force pipes, etc.; also for two 6 ft. diameter and 16 ft. long, return tubular boilers and a self-supporting steel chimney. Wm. Molis, Supt. W.-W.; T. R. Fitzgerald, Secy. (Advertised, Engineering News.)

STANTON, IA.—Committee, Harry Nelson, Member, is to consider installation of water-works for this place.

WOODWARD, IA.—We are informed that town voted adversely to issue of bonds for water-works. Election was held Nov. 15. D. J. Brookings is Mayor.

OSCEOLA, NEB.—Bids are asked until Dec. 26 for construction of water-works system for this village. Work consists of constructing between three and four miles of pipe line, a well 200 ft. deep and 10 ins. diameter, 25-HP. gasoline engine, deep well pump, standpipe or tower and tank, pumping station, etc. M. A. Earl, 1416 First National Bank Bldg., Chicago, Ill., is Engr., and W. D. Crum is Chn. Water Com.

ST. PAUL, MINN.—Issuance of $500,000 of bonds for permanent improvements and extensions of the water system is stated to be under consideration. John Caulfield is Secy. Water Bd.

TERRY, S. DAK.—Terry Light & Water Co., has been organized to install water-works here, according to reports.

MISSOULA, MONT.—Harrison Danforth has filed notice of appropriation of 500 ins. of water from Butler Creek for domestic and irrigating purposes.

CENTER, TEX.—A $3,000 bond issue of this city for water-works purposes has been approved by State Attorney-General.

DENTON, TEX.—City is reported to have voted to issue $25,000 of bonds for installing water-works.

MUSKOGEE, IND. T.—Following bids were received by Council Nov. 23 for laying water mains and constructing settling basins: Thomas J. Burns, $45,385; N. S. Sher-

man Mach. Co., $43,950; W. W. Cook & Son, $40,995; E... P. Sykes, $42,980; American Light & W. Co., $42,-5.. McWalter's Plumbing & Machine Co., $41,650; Dwyer Plumbing & Heating Co., $42,700; Hanley & Richie, $4..... The following bids were received for construction of filters: Jackson Filter Mfg. Co., $5,750; Pittsburg Filter Mfg. Co., $9,000; Wm. B. Schaife & Sons Co., $....; N. Y. Continental Jewel Filtration Co., $7,750.

...VILLE, WASH.—Question of municipal water-works ... be voted on Dec. 6.

...RRINGTON, WASH.—Oliver Ditson, owner of re... completed water-works here has made proposition ... uncil for sale of it to city for $23,000. Matter was ... voted on Dec. 6.

...KFORD, WASH.—City Clerk is reported to be call... bids until Dec. 15 for purchase of $5,398 of water-... bonds.

...LLA WALLA, WASH.—Advices from this city state ... Burlingame-Boyer Irrigation Co. has combined with ... ne Bros. Co., under the name of the Walla Walla ...ion Co. to complete a 30-mile ditch from the Hud... y country northerly to Wallula, taking water from ... a'la Walla and Tumalum Rivers. E. C. Burlingame, ...sburg, Wash., is interested.

...RDEEN, WASH.—Bids are stated to be asked by ... Clerk until Dec. 28 for laying 140 pieces 12-in. cast-... pipe across the Chehalis River.

...K, WASH.—Geo. H. Jones, Usk, is reported interested ... irrigation work, requiring construction of three miles ... ditch and one mile flume.

...RKELEY, CAL.—Various improvement clubs of this ... are advocating construction of reservoir, into which salt water can be pumped, for fire protection purposes.

MONROVIA, CAL.—City Council is to postpone action on increasing water supply indefinitely, according to reports.

MOUNTAIN VIEW.—Contract for pumping plant for municipal water system has been let to Stanley Construction Co. Contract for laying pipe, etc., had been let previously to Williams & Beiser, as was stated in our issue of Nov. 24.

OAKLAND, CAL.—Result of recent postal card ballot to secure opinion of citizens is reported to favor Bay Cities Water Co.'s project. This provides for purchase for $5,750,000 of water rights and plant which the company would install. F. C. Turner is Cy. Engr.

SANTA ANA, CAL.—Citizens will vote Dec. 20 on $100,-000 bond issue for improvement of the water system.

PACIFIC GROVE, CAL.—Pacific Improvement Co. is reported to be perfecting plans for enlarging its reservoir to 30,000,000 gallons; six 12-in. wells are to be bored in the Carmel valley. Work is stated to have been commenced on some of the improvements. A pumping plant is to be installed at a cost of $25,000. Ten miles of water mains will be required to convey the water from the reservoir to the Grove and neighboring communities.

SANTA ROSA, CAL.—Citizens may vote on bond issue for purchase of a pump for the pumping station, the enlarging and improvement of the municipal water system, enlarging and improvement of the sewer system, etc.

SAN FRANCISCO, CAL.—We are informed that no plans have yet been adopted for proposed auxiliary high pressure fire protection system for this city. $150,000 has been appropriated for the work this year, which will consist in the acquirement of the necessary reservoir site on Twin Peaks in the geographical center of the city, four miles from foot of Market St., and the construction of a 20,000,000-gallon reservoir with water surface at an elevation of 755 ft. Future work will depend upon future appropriations. Thos. P. Woodward is Cy. Engr.

SAUSALITO, CAL.—South Sausalito Water Co., according to reports, is to have work commenced soon on the construction of a system of wells, tunnels, storage reservoirs and pumping plants.

YREKA, CAL.—Advices from this city state that water appropriations have been filed on as follows: T. J. Butts, W. P. Barnes and A. Barham, 1,500 ins. of waters of Crater Creek, for mining, irrigating and power purposes; A. D. Bartle and W. W. Garrow, 2,000 ins. of waters of Elk Creek, for irrigating and domestic purposes; Jas. D. Edwards and A. E. Edwards, 500 ins. of Kangaroo Creek, Callahans District, for mining purposes.

BISHOP, CAL.—Bids are asked by Town Trustees until Jan. 10 for furnishing material and constructing water system, requiring 15,000 ft. 6-in., 2,280 ft. 4-in., and 16,-570 ft. 2-in. pipe, gate valves, crosses, tees, etc. Lippincott & Parker, Engrs., Braly Bldg., Los Angeles, Cal. (Advertised, Engineering News.)

BISBEE, ARIZ.—Council has granted Huachuca Mountain Water Co. privilege to lay pipes and do business in this city. Company agrees to start work on its pipe line from the reservoir within three months. O. Gibson, Tombstone, Ariz., was Attorney representing the water company.

WHIPPLE BARRACKS, ARIZ.—O'Brien & Rhodes, Denver, Colo., were awarded contract for installation of water distributing system and reservoir at this place, at $21,500.

AMERICAN FORK, UTAH.—Council is considering proposition to tunnel northern part of town in order to increase the water supply.

LEWISTON, IDAHO.—Lewiston-Clarkston Co., E. H. Libby, Pres., is reported to have surveys about completed for 20,000,000-gallon Pomeroy Gulch reservoir which is to furnish Clarkston with water. Company also projects reconstruction of main irrigation ditch from Asotin Creek.

WALLACE, IDAHO.—Franchise for water systems here has been granted Mullan Water Co.

PHOENIX, B. C.—Canadian Pacific Ry. Co. is reported to be considering securing water supply from Loon or Bear Lake, bringing it about three miles to its tanks at Eholt. G. H. Webster, Vancouver, B. C., is Div. Engr., C. P. R. R.

VICTORIA, B. C.—Improvements of city water-works are stated to be under consideration. Project contemplates construction of reservoir in connection with Elk Lake.

NORTH BAY, ONT.—Bids are asked by M. W. Flannery, Town Clk., until Dec. 16 for the supply of 15,000 ft. of 10-in. cast-iron pipe, together with valves and specials.

ST. MARYS, ONT.—Grand Trunk Ry. is to obtain water supply from this town. Latter is to lay main to 50,-000-gallon tank which the railway is to build.

FORT WILLIAM, ONT.—Water, Light and Telephone Board will ask council for $11,000 for water-works extensions.

TORONTO, ONT.—By-law to raise $700,000 for fire protection purposes has been given second reading by city council.

MONTREAL, QUE.—The City Water Department has asked for the following appropriations: $30,000 for new hydrants; $400,000 for larger pipes; $75,000 for continuing 30-in. rising main to the reservoir; $35,000 for new force main from low level pumping station; $150,000 for main pipes for projected streets; $500,000 for construction of filtration system; $45,000 for 24-in. main in St. Anne's Ward; $40,000 for force main under Lachine Canal; $70,-000 for extension of high level service in North Ward; $30,000 for cementing bottom of McTavish reservoir; $25,-000 for reconstruction of piers and superstructure of bridge at regulating gates; $20,000 for reconnecting dead ends of pipes, and $14,000 for reconnecting 24-in. main on Notre Dame St., at Place Viger Station.

SEWERAGE.

SPRINGFIELD, MASS.—Board of Public Works favors construction of sewers in Springfield St. for a distance of 2,400 ft., to cost about $4,600; in White St., in Banks Ave. and in Carew St., for a distance of 1,500 ft. Orders for these sewers have been passed.

ASBURY PARK, N. J.—F. Herbert Snow, C. E., of Boston, is designing septic sewage disposal system, under instructions from City Council, we are informed by John L. Coffin, Supt. Dept. of Water & Sewers. System will have a capacity of 1,000,000 gals. per day. It probably will be installed next spring.

JERSEY CITY, N. J.—Plans for an outlet sewer to cost $100,000 are said to have been accepted by the Street and Water Board. Owing to alleged demands of the Delaware, Lackawanna & Western Ry. Co. for certain damages the plan may be postponed.

HOLLY BEACH, N. J.—Murdock & Co., of Philadelphia, have contract for eight miles of sewers, at $29,600.

WILKESBARRE, PA.—Bids will be received Dec. 21 by Fred. H. Gates, City Clk., for $408,000 sewer, paving and other improvement bonds, it is reported.

GREENVILLE, S. C.—J. R. Lawrence has contract for sewer system extension. Estimated cost, $3,500.

GRIFFIN, GA.—Montague & Co., of Chattanooga, Tenn., have been awarded the contract for sewer pipe at about $10,000. Noted last week.

ALBANY, GA.—Bids are asked until Dec. 26 for construction of sanitary sewers in South, Residence and Madison Sts. John S. Clark, Chn. Contract Com.

SPRINGFIELD, O.—Plans prepared by Snow & Barbour, Engrs., of Boston, for sewage disposal plant and sewer system have been accepted by Board of Public Service and City Council. Total cost is estimated at $353,206, of which $102,670 would be for disposal plant. Total length of proposed sewers is nearly 120 miles.

ELYRIA, O.—Board of Public Service will accept plans for sewer system. They were prepared by Riggs & Sherman Co., of Toledo, who estimate cost of construction at $290,000. An expert engineer may be retained.

ALLIANCE, O.—Council has passed an ordinance authorizing the Board of Public Service to contract for enlargement and extension of city storm sewers at a cost not to exceed $7,000.

CINCINNATI, O.—Evan Evans was awarded the contract by the Board of Public Service for building the sewer in Columbia Ave., Sachem and Tusculum Sts., at $11,128. He also was let the sewer contract for Eastern and Seaples Aves., at $6,753.

LAKEWOOD, O.—Bids are asked until Dec. 16, noon, for construction of sewers. Henry J. Sensel, Village Clk.

ZANESVILLE, O.—Bids are asked until Dec. 9 by Board Public Service for furnishing material and constructing 12, 15 and 18-in. storm and sanitary pipe sewer in portion of Eighth and Roe Sts. H. W. Snoots, Clk.

FREMONT, O.—Hennessey Bros., of Napoleon, were awarded contract for West State St. sewer, at $5,393. There were two bidders.

YOUNGSTOWN, O.—Permission has been granted to city by state board of Health to install a sewer in McGuffey St., providing an outlet be constructed in Crab Creek to connect with the Mahoning River. F. M. Lillie is Cy. Engr.

NEW ALBANY, IND.—Council is considering plan to install a sewer system. Outlet would be into the Ohio River. Estimated cost, $200,000.

RICHMOND, IND.—Bids are asked until Dec. 19 by Common Council for constructing a sewer in a portion of South C St. John F Taggart, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked until Dec. 14 by the Board Public Works for constructing a local sewer in a portion of Columbus Ave. M. A. Downing, Chn.

Owing to error in calculations, B. J. T. Jeup, Cy. Engr., has recommended that Board of Public Works postpone indefinitely consideration of West Indianapolis main sewer. New plans will be prepared. The project will be taken up early next year.

DETROIT, MICH.—Bids are asked until 10 a. m., Dec. 8, for sewer construction. Wm. H. Maybury, Comr.

DETROIT, MICH.—Local paper states that Robert H. McCormick, Cy. Engr.; A. B. Raymond, Engr. of the Board of Health, and C. W. Hubbell, Engr. for the Water Board, have recommended the construction of a sewer from Connor's Creek to a point below the water-works. This sewer is to be used primarily for carrying off the refuse of the Fairview village sewer. Later, it will perform the same service for the other villages lying to the north and west of Detroit. Fairview village may be enjoined from continuing work on Connor's Creek sewer.

DES MOINES, IA.—John W. Budd, Cy. Engr., has completed plans for 12-in. vitrified pipe sewer for Northwest Des Moines. It will cost $8,436.

PIPESTONE, MINN.—Loweth & Wolff will prepare plans and specifications for city sewer system. S. W. Funk is Cy. Recorder.

TOPEKA, KAN.—The proposed Sixth Ward sewer will be 8.3 miles long. The following pipe will be required: 19,369 ft. of 8-in. pipe, 475 ft. of 10-in., 4,821 ft. of 12-in., 4,863 ft. of 15-in., 2,993 ft. of 18-in., 862 ft. of 21-in., 1,700 ft. of 24-in., 3,630 ft. of 27-in., 650 ft. of 30-in., 1,350 ft. of 30-in. brick. City Engineer McCabe is preparing estimates.

JEFFERSON CITY, MO.—Bids are asked until Dec. 15 for furnishing material and constructing a sewer in Dist. No 11. Approximate quantities: 13,496 lin. ft. of 8, 14 and 15-in. vitrified pipe sewer, 12,619 lin. ft. excavation, 130 cu. yds. of concrete masonry, 200 lin. ft. of water supply pipe for flusher, etc. J. C. Herring, Cy. Engr.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

ST. LOUIS, MO.—It is reported that City Council will issue $9,000,000 of bonds, of which $230,000 is for the fire department; for bridges and the boulevard system, $2,-000,000; for sewers, $2,000,000, and for parks, $500,000.

FAYETTEVILLE, ARK.—J. T. Enssen, Mayor, informs us that sewer system is under consideration, but that nothing definite has been done. Estimated cost, about $60,000.

BEAUMONT, TEX.—At recent election it was voted to issue $30,000 of bonds for improving and extending sewer system.

SEATTLE, WASH.—Bids will be asked by C. B. Bagley, Secy. Bd. Public Works, about Dec. 31 or Jan. 5 for construction of a main trunk sewer in Rainier Ave. Alternative bids will be called for reinforced concrete sewers and brick sewers. Approximate quantities: 2,573 lin. ft. of 30-in. brick (or concrete) sewer; 1,440 ft. of 36-in.; 1,060 ft. of 54-in.; 800 ft. of 60-in.; 2,800 ft. of 72-in.; 2,500 ft. of 24-in. pipe sewer; 14 manholes. The estimated cost of this work, based on the construction of brick sewers, is $87,000.

ASHLAND, ORE.—Following bids were received for extending sewer system: J. B. Slemmons, Portland, $41,-000; John P. O'Neill, $39,700; N. M. Moody, Portland, $40,-619; C. D. Vincent, Oakland, Cal., $39,500; J. E. Frick, $38,750. Mr. Frick was awarded the contract. This is for about 12 miles of laterals.

BERKELEY, CAL.—The King Construction Co. was awarded the contract by the Northern Development Co. for sewering, macadamizing and laying 300 ft. of drainage pipe in the Jaynes tract at Grove and Cedar Sts. Cost, about $30,000.

SANTA ROSA, CAL.—See under Water-Works.

BISHOP, CAL.—Bids are asked until Jan. 10 by Board Trustees for constructing a sewer system. Approximate quantities: 9,700 ft. of 6 to 14-in. vitrified pipe; 9,710 ft. of trenching for above pipe; four Miller Potter flush-tanks; eight manholes; 250 Y-connections; also 8,400 ft. of 4 to 8-in. drain tile. (Advertised, Engineering News.)

HAMILTON, ONT.—Sewage disposal plant and sewer system will be installed in East End next spring, it is stated. Cost is estimated at $50,000.

GARBAGE DISPOSAL—STREET CLEANING

NEW LONDON, CONN.—Bids have been under consideration of Council Street Committee for street cleaning, removal ashes, etc. The following are the lowest bids received: Removal ashes, Charles A. Peck, $3,338; removal animal and vegetable matter, Charles A. Peck, $1,-432; cleaning streets and walks, Allen T. Darrow, $3,200.

ORANGE, N. J.—Council has been discussing matter of garbage crematory, and it is stated that report on subject would probably be made Dec. 5.

BALTIMORE, MD.—Bids are asked by the City Register until Dec. 14 for collection and disposal of ashes other than wood and coal, dead horses and cows, and miscellaneous refuse other than cans, broken glass, chinaware, paper and rags, in the City of Baltimore. J. L. Wickes, Comr. St. Cleaning.

FORT SAM HOUSTON, TEX.—Bids are asked until Jan. 5 for construction and erection of garbage crematory, complete, including building to enclose same, at Fort Sam Houston. L. J. Fleming, C. Q. M.

STREETS AND ROADS.

NORTH EASTON, MASS.—A petition is to be placed before the Road Commissioners asking for an extension of street known as "old meeting house road." John J. McCarthy is Supt. of Streets.

NEWPORT, R. I.—The City Clerk informs us that Thames St. will not be widened at the present time.

FORT GREBLE, R. I.—Capt. H. C. Hodges, Jr., Q. M., 209 Thames St., Newport, will readvertise for bids for constructing granolithic walks at Fort Greble.

ALBANY, N. Y.—The Board of Contract is stated to have rejected all bids received for paving Dallius St.

GLEN FALLS, N. Y.—The Warren County Board of Supervisors has approved plans for state road from Glen Falls along line of military road to Canada, to Bolton Landing, on Lake George, a distance of 17 miles. Est. cost, $190,000. Henry A. Van Alstyne is State Engr.

ILION, N. Y.—State engineers are making a survey from Otsego St. to United States Hotel. The intention is to build a macadam road through this portion at the expense of the state.

LOCKPORT, N. Y.—Board of Supervisors passed a resolution calling for the macadamizing of Transit road.

ALBANY, N. Y.—Mayor Gaus has approved the ordinance for paving Partridge St., from Central Ave. to Sherman St.

ALBANY, N. Y.—A resolution has been introduced in Common Council for paving Livingston Ave.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. Manhattan, until Dec. 14 for regulating and repaving with asphalt the roadway of several streets.

NEW YORK, N. Y.—Bids are asked by Maurice Featherson, Comr. of Docks, until Dec. 16 for laying a new granite pavement upon a sand foundation on filled-in land along northerly half of 52d St., in Borough of Brooklyn.

COLLINGSWOOD, N. J.—Bids are asked by Highway and Drainage Committee, 22 Collings Ave., until Dec. 23 for macadamizing of certain streets and for laying of vitrified block gutters. Earl Thomson, Engr.

WEST HOBOKEN, N. J.—Bids are asked by Town Council until Dec. 14, 8 p. m., for paving Summit Ave. with Belgian block pavement. Plans and specifications on file in Town Clerk's office.

PHILADELPHIA, PA.—An ordinance to open 25th St. has been introduced into Select Councils by Walter Stevenson. Cost, $100,000.

WILKES BARRE, PA.—Bids are asked by Fred. H. Gates, Cy. Clk., until Dec. 21 for the purchase of $408,-000 of bonds. The purpose of the issue is to provide money for street paving, sewer construction and other improvements.

PITTSBURG, PA.—Contract for reconstruction of race track in Schenley Park was awarded to Thomas McNally & Co., for 35 cts. a yard. Cost, about $14,500.

FORT MYER, VA.—Capt. O. W. Bell, Q. M., U. S. A., is reported as stating that all bids opened Nov. 8 for a macadam road at his post have been rejected.

BALTIMORE, MD.—B. T. Fendall, Cy. Engr., has been instructed to grade the entire length of the proposed extension of boulevard, and macadamize Merrymans lane. Council has appropriated $30,000.

MONTGOMERY ALA.—Bids are asked by R. S. Williams, Cy. Treas., until Dec. 19, 12 noon, for paving sidewalks on both sides of Madison Ave. and Mildred St., according to specifications in City Engineer's office.

CHARLESTON, MISS.—(See under Bridges.)

POPLARVILLE, MISS.—An election will be held here to decide the question of issuing $25,000 in bonds for public road improvements. Address County Clerk for information.

NEW IBERIA, LA.—A contract to do $38,000 worth of concrete sidewalk and curbing has been let to Foulkes & Forb of Terre Haute, Ind. Work will commence at once.

IRONTON, O.—Board Public Service has instructed City Engineer to prepare plans for the improvement of Third St. by paving with brick.

LORAIN, O.—Councils of this city and Elyria and County Commissioners are about to take up the question of building a new wagon road of macadam between here and Elyria.

COLUMBUS, O.—The question of a park and boulevard system is under consideration here. Robt. Jefferies is Mayor.

CLEVELAND, O.—Contract for paving of Denison Ave. with asphalt has been let to Standard Contracting Co. by Board Public Service for $3,423.

SPRINGFIELD, O.—W. H. Sieverling, Cy. Engr., has been instructed to prepare an estimate of cost of constructing a sewer and paving Columbia St. Cost, about $200,000.

FINDLAY, O.—John W. S. Riegle, Cy. Engr., writes us that plans have been prepared for paving Washington St. and Franklin Ave. with vitrified brick on rolled stone; also for paving Clinton and Shinkle Sts. with vitrified block on 6-in. concrete. Work will not be advertised until latter part of January or February.

YOUNGSTOWN, O.—P. W. Hubler, Cy. Clk., informs us that no official action has been taken in the matter of paving Oak Hill Ave.

WARREN, O.—We are informed that $50,000 will be expended by Trumbull County next year for macadamizing roads.

XENIA, O.—Bids are asked by J. E. Jones, Clk. Brd. Pub. Service, until Dec. 20 for paving roadway of Main St.

CINCINNATI, O.—An ordinance has been submitted to Council authorizing the appointment of a special engineer to make surveys and draw plans of proposed new boulevard connecting Eden Park and Burnet Woods.

INDIANAPOLIS, IND.—Bids are asked by Board Park Commissioners until Dec. 9 for grading and macadamizing a roadway from Michigan to Tenth St. Hiram Brown, Chn.

INDIANAPOLIS, IND.—The Park Board has decided to improve the roadway along the old Patterson levee. Cost, about $5,000. Bids for the improvement have been authorized by the Board.

FORT WAYNE, IND.—President Eggemann of the Board Public Works is reported as stating that the Board has under consideration the putting down of four miles of pavements the coming spring and summer. Petitions are in for paving South Broadway and Fulton St.

GOSHEN, IND.—It is reported that the paving of North Fifth St. is assured. Work will be done in the spring.

LAPORTE, IND.—Bids are asked by Laporte County Commissioners until Dec. 10 for about 11 miles macadam road.

STERLING, ILL.—Bids are asked by Board Public Improvements until Dec. 9 for paving and curbing certain streets. S. D. Benner, Secy.

EAST ST. LOUIS, ILL.—Board Local Improvements will call for bids this fall or early next year for approximately 82,900 sq. yds. brick paving, etc. W. J. Crocken is Cy. Engr.

SHEBOYGAN, WIS.—Estimates are being prepared for about 26,240 sq. yds. brick pavement on concrete foundation; also for 25,000 sq. yds. granite top macadam pavement. C. U. Boley is Cy. Engr.

DES MOINES, IA.—Property owners on West 13th St. will renew their petition for paving on the street.

OTTUMWA, IA.—Contract for 7,000 yds. paving has been awarded to Barber Asphalt Paving Co., at $15,000. Other contracts for paving have been awarded as follows: McCarthy Improvement Co. of Davenport, 2,000 yds. alley paving, consisting of one course of vitrified brick on a 6-in. concrete foundation, filled with Portland cement; Barber Co., paving with asphalt, Third and Washington Sts.; same company for resurfacing Second St. with asphalt, 5,000 yds.

SOUTH OMAHA, NEB.—An ordinance has been presented to the Council declaring it necessary to pave Missouri Ave.

ST. PAUL, MINN.—Bids are asked by Board Public Works until Dec. 12, 2 p. m., for paving of Franklin St. with asphalt. R. L. Gorman, Clk.

ST. LOUIS, MO.—The City Council at its last meeting decided to issue $2,000,000 bonds for bridges and boulevard system.

MEXICO, MO.—About ten blocks of brick paving will be let next spring. Wallace Dearing is Cy. Clk.

ST. JOSEPH, MO.—Contract for construction of macadam road from Pettipler's addition to Lake Contrary, a distance of a mile and one-eighth, was let to A. J. Armstrong.

SAN ANTONIO, TEX.—An election will be held on Dec. 14 to vote on issuing $15,000 bonds to pave Commerce St. with asphalt, and an election on Dec. 21 for $38,000 for macadamizing streets in Dist. No. 3. John R. Rullman is Cy. Engr.

BLAINE, WASH.—Bids are asked by R. J. Glen, Cy. Clk., until Dec. 19 for grading Cherry St.; also to construct a six-foot sidewalk on south side of same street.

SEATTLE, WASH.—An ordinance providing for the extension of Western Ave. has been presented to the Council. R. H. Thomson is Cy. Engr.

SPOKANE, WASH.—Board Public Works opened the following bids Nov. 25 for grading, curbing and sidewalking of Maxwell Ave.: James H. Fife, $16,450; Mitchell Bros., $16,000; Peter Costello, $15,600.

SEATTLE, WASH.—Bids are asked by Board Public Works until Dec. 17 for grading and laying concrete sidewalks on Main St. and other connecting streets and avenues. Est. cost, $83,000. C. B. Bagley, Secy.

GUTHRIE, OKLA.—Geo. F. Kessler, Fidelity Bldg., Kansas City, Mo., is preparing plans for a public road, to be located at Guthrie.

SAN FRANCISCO, CAL.—Bids were ordered advertised by Board Public Works for paving of H St.

SAN RAFAEL, CAL.—Clerk was authorized by Board of Supervisors to advertise for bids for construction of San Pedro road.

SEBASTOPOL, CAL.—Resolution of intention was adopted by Board of Trustees to order that Main St. be graded and curbed with redwood, guttered with broken rock and macadamized. Chas. Soloman, Clk.

SAN FRANCISCO, CAL.—An ordinance was passed by Board of Supervisors adopting plans and specifications and authorizing Board Public Works to expend a sum not to exceed $16,750 for improving several streets.

TORONTO, ONT.—The following contracts were awarded: Stone block pavement on Esplanade St., to Godson Construction Co., $48,290; asphalt pavement on Yorkville Ave., to Constructing & Paving Co., $9,675; macadam roadway on Wellesley St., to City Engineer, $2,754.

MANUFACTURING PLANTS.

NEW YORK, N. Y.—S. B. Eisendrath, Arch., 41 West 24th St., has plans ready for bids on a factory for S. Segal, 653 Broadway. Brick, stone and concrete, structural iron, mill construction, gravel roof, electric wiring and steam heat. Cost, $80,000.

AVOCA, N. Y.—The Avoca Creamery Co. was incorporated. The incorporators are: O. C. Billings, Geo. W. Polmonteer and M. C. Cornue.

SELLERSVILLE, PA.—The Annure Tapestry Co. will move its factories from Philadelphia to Sellersville, where new buildings will be erected.

CALIFORNIA, PA.—Ballinger Bros., 133 First Ave., Pittsburg, will erect machine shop, 70 × 190 ft., at this place.

SCOTTDALE, PA.—Kenny & Co., City, have purchased five acres of land here and will place contracts for construction and equipment of machine shop. Brick, one story, 76 × 120 ft.

PITTSBURG, PA.—A. M. Byers & Co., City, have had plans prepared for addition to plant of 30 puddling furnaces. Work will be started about April 1.

LORETTO, PA.—A movement is on foot here to establish a shirt and overall factory.

ROYERSFORD, PA.—J. Vincent Poley, C. E., 160 Second St., has plans for a foundry, 78 × 96 ft., for Floyd, Wells & Co. Bids will be received by owner.

PHILADELPHIA, PA.—Hosiery mill of Thomas Grans, 4947 Wakefield St., was destroyed by fire.

BALTIMORE, MD.—Frank W. Sandruck, carriage manufacturer, Howard and Tyson Sts., has commissioned Henry J. Tinley, Arch., 421 St. Paul St., to prepare plans and specifications for building to be located on Howard and Tyson Sts. Brick, four stories, 27 × 75 ft.

RANDLEMAN, N. C.—The Pearl Hosiery Mfg. Co. will add 20 additional machines to its plant. Arch. N. Bulla is Treas. and Gen. Mgr.

WILMINGTON, N. C.—Frederick Pope, Ch. Engr. Weed Distilling & Mfg. Co., City, writes us that the company is building a saw mill here with a capacity of about 20,000 ft. per day, with a planing mill for dressing the same. Several buildings will be erected for distilling and wood preserving units, which will probably be of expanded metal and concrete on steel frames. A pumping plant of large capacity will also be installed. There will be a power plant of 300 HP. and an electrical equipment of about 200 KW. New York office, 100 William St.

GREENSBORO, N. C.—A. L. Bain contemplates organizing a company to erect a 15,000-spindle cotton mill.

HIGH POINT, N. C.—The Pittsburg Plate Glass Co. has purchased a site and will locate a glass factory in this city.

RALEIGH, N. C.—O. M. Minor is in the market for woodworking machinery, including saw mill and shingle mill, and desires correspondence from parties having such machinery for sale.

CHESTER, S. C.—The erection of a $30,000 silk mill at this place is contemplated. R. B. Caldwell, Pres. Commercial and Manufacturing Club, can give information.

CONWAY, S. C.—The Atlantic Broom Works have been organized here. Chas. N. Snider is Pres.

WILLISTON, S. C.—E. C. Smith, of Edgefield, contemplates establishing a hosiery mill here.

ATHENS, S. C.—The Athens Ice & Coal Co. will increase the capacity of its plant about one-third. New machinery will be added in all departments.

MARION, S. C.—Will Hamer is president of a company which will erect a $100,000 cotton mill here.

ROME, GA.—The Hanks Foundry Co. will make improvements and add new machinery at a cost of $6,000. A large warehouse will also be built.

MACON, GA.—The Willingham Sash & Door Co. will rebuild its factory, burned recently at a loss of $25,000. The buildings will be of brick.

SAVANNAH, GA.—A. B. and E. S. Girardeau have incorporated the Johnson's Chill and Fever Tonic Co. with $250,000 capital to manufacture medicines.

LAWRENCEVILLE, GA.—Allen Mfg. Co. will establish plant for the manufacture of burlaps and all kinds of bags.

MACON, GA.—Wellingham Sash & Door Co. will arrange for the erection of brick factory to replace plant recently burned at a loss of $25,000.

GAINESVILLE, FLA.—Suwannee River Producing Co. has purchased 80,000 acres of timber in Fayette County and will erect a saw and stilling plant. A. W. Taylor is surveying the tract of land.

GADSEN, ALA.—Dr. E. H. Cross will erect a plant here for the manufacture of Pep-to-Lack. It will have a capacity of 500 gallons daily.

BIRMINGHAM, ALA.—J. F. Buchanan, W. L. Howard and L. A. Buchanan have incorporated the J. F. Buchanan Candy Co., with $10,000 cap. stock, to operate a candy factory.

MONTGOMERY, ALA.—E. J. Cramton will erect a planing mill and lumber plant here.

MOBILE, ALA.—The Mobile Cooperage & Box Mfg. Co., capital $30,000, has been incorporated here. Factory and office are to be located on Three-mile Creek. The incorporators are: A. S. Lyons, E. D. Leiyard and others.

MAGNOLIA, MISS.—The Magnolia Cotton Mills will increase their capital from $100,000 to $200,000.

LONGBEACH, MISS.—A plant to manufacture and can cane syrup and sweet potatoes will be erected here by W. J. Quarles, I. D. Toomer and others.

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DREW, MISS.—The Drew Mercantile & M[illegible] Co. has been chartered here with a capital of $20,000.

ABERDEEN, MISS.—The Aberdeen Sand & [illegible]k Corporation has been organized here with a capital [illegible] $70,000.

FAYETTE, MISS.—The W. P. Adams Lum[illegible] Co. has been chartered. Capital, $10,000.

SILVER CREEK, MISS.—J. C. Jarvis, of [illegible]burg, and J. M. Stranland will establish bottling [illegible] here. Work has been started on the buildings. Gi[illegible] & Cubley, contractors.

ABERDEEN, MISS.—Geo. C. Paine, B. C. W[illegible] Robt. Kaye and associates will organize a $70,000 [illegible]any to establish plant for the manufacture of san[illegible] lime brick which will be equipped for a daily cap[illegible] of 25,000 brick.

COMO, MISS.—The Como Lumber Co. ha[illegible] char[illegible]tered to do business here.

NEW ORLEANS, LA.—The city will estab[illegible] as[illegible]phalt plant at a cost of $30,000. Address th[illegible] for information.

RUSTON, LA.—W. F. Taylor will erect a [illegible] g[illegible] here at a cost of $4,000 or $5,000.

NEW ORLEANS, LA.—The Gerke Brewing [illegible] Cincinnati, O., contemplates locating a branch [illegible] here for the manufacture of malt extract.

NEW ORLEANS, LA.—Laundry owned by S[illegible] Steam Laundry Co., 1010 Gravier St., was destroy[illegible] fire. Loss, $40,000.

LAKE PROVIDENCE, LA.—A. B. Sanders, Shreveport, La., is to erect 25-ton ice plant here, according [illegible] reports.

LAKE PROVIDENCE, LA.—A. B. Sanders of Shreveport will establish a 25-ton ice factory here.

TRENTON, TENN.—The Trenton Cotton Mills, capital $48,000, have been incorporated by J. Freed, A. S. Elder, J. A. Landis and others.

LYTLE, TENN.—The Lytle Creamery has been incorporated by W. H. Gray, B. N. Briggs, I. N. Johnson and others.

CHATTANOOGA, TENN.—The Atlanta Ice Co. has purchased the factory of Hamilton Ice & Cold Storage Co. and will double the capacity of the plant and build a new 50-ton ice factory. The total expenditure, exclusive of the purchase of the old plant, will probably reach $100,000. The present factory was erected last spring at a cost of $35,000 and has a capacity of 25 tons per day.

CHATTANOOGA, TENN.—The Ward Ice Co. has been organized with $75,000 capital. M. H. Ward is Pres. A 50-ton ice machine has been ordered and plans are now being made for the proposed building.

NASHVILLE, TENN.—The Fruit Growers' Express Line, which is backed by Armour Packing Co., of Chicago, will erect an ice and cold storage plant in this city.

JOHNSON CITY, TENN.—The East Tennessee & Western North Carolina R. R. Co. will establish machine shops here. Geo. W. Hardin, Cranberry, N. C., is Supt.

PADUCAH, KY.—Dr. J. H. Hickman, J. W. McCulloch, F. T. Gunther, C. W. Bransford and R. S. Hughes, all of Owensboro, Ky., contemplate organizing $200,000 company to establish wagon works.

CINCINNATI, O.—Plans for a three-story factory and warehouse for Geo. Gerke are being prepared by Des Jardins & Hayward, Archs., St. Paul Bldg.

CINCINNATI, O.—Elzner & Anderson, Archs., Ingalls Bldg., will soon have plans ready for bids for a five-story concrete building, 32 × 156 ft., for W. B. Carpenter & Co.

MISHAWAKA, IND.—The Business Men's Industrial Association has closed a contract with Herman Roemunder, who will establish a manufacturing plant here.

NORTH JUDSON, IND.—The Indiana Sand-Lime Brick Co., has incorporated with $30,000 cap. stock. The object is to establish a plant for the manufacture of machinery adapted to the manufacture and moulding of sand-lime brick, building brick, etc., and also to establish a plant for the manufacture of the above-named products. Frank C. Tracey, Silas Myers and others, incorporators.

BRAZIL, IND.—The Brazil Clay Mining Co., has incorporated with a capital stock of $50,000. The company proposes to mine, manufacture and deal in clay, shale and other minerals and the products thereof. Jos. Martin, W. M. Zeller and Ed. Shuckle, incorporators.

FT. WAYNE, IND.—The Duther Lumber & Supply Co. has incorporated with a capital stock of $32,000. The company will erect a plant to manufacture lumber and supplies for building purposes. Fred. E. Hoffman, Louis Duther and others, incorporators.

HAMMOND, IND.—Peter Bartzen & Son have the general contract for a manufacturing plant to be built here for Frank S. Betz & Co., manufacturers of physicians' and surgeons' supplies. It will comprise three one-story buildings, 536 × 100 ft., 100 × 260 ft., and 100 × 100 ft., of brick, stone and iron with gravel roofs, steam heat and electric light. Cost, $100,000.

GRAND RAPIDS, MICH.—W. A. Chapel, Arch., has plans for a machine shop for Max Braudy, at Alabama and First Sts. Brick, 2 stories, 46 × 148 ft. Contract will be let in the spring.

DETROIT, MICH.—The St. Clair Mfg. Co., City, makers of shirtwaists, will erect an addition to their factory a[illegible] Lafayette and Fourth Sts.

SAGINAW, MICH.—Fire destroyed the plant of Berst Mfg. Co. Loss, $300,000. The plant was a three-story building used for the manufacture of toothpicks and wooden dishes.

GRAND RAPIDS, MICH.—The Acme Cement Plaster Co. is preparing to erect a mill at the junction of Lake Shore and the Pere Marquette railroads for the manufacture o[illegible] stucco.

CHICAGO, ILL.—C. A. Eckstrom has let contracts for a factory to be built at Erie St. for Scudder Syrup Co. Mill construction, four stories, 39 × 100 ft. Cost, $35,000.

MILWAUKEE, WIS.—Fire in the building of Kalamazoo Knitting Co. and the Tabor Glove Co. caused a loss of $50,000.

SHERIDAN, WYO.—It is reported that arrangements have been completed for the erection of a beet sugar factory here. Work to commence at once.

ST. LOUIS, MO.—J. C. Rankin, Arch., Koken Bldg., will receive bids for a three-story laundry building, 2[illegible] × 71 ft., for Colonial Laundry Co., 2040 Olive St. Cost, $12,000.

CAPE GIRARDEAU, MO.—A tobacco factory will be established here by Martin Roth, Frank Schwepker, Chas. Ruessler and A. B. Aud'ndistel. Twist and plug tobacco will be manufactured. Martin Roth will be manager.

KANSAS CITY, MO.—The Schwarzschild & Sulzberger Packing Co. will add cold storage and canning department to its plant and make other improvements. Cost, $500,000.

JOPLIN, MO.—The National Glove & Mitten Co., of Kokomo, Ind., is reported as contemplating the establishment of a branch factory here.

PINE BLUFF, ARK.—M. A. Austin will organize a [illegible] company to manufacture hydraulic pressed stone for building purposes. J. A. Holmes is interested.

VOTAW, TEX.—The Frost-Trigg Lumber Co., of St. Louis, Mo., will probably erect a saw and planing mill a. this place.

SAN ANTONIO, TEX.—The San Antonio Steam Laundry Co., capital stock $18,000, has been chartered to maintain a steam laundry. Incorporators: C. F. Masch, T. Welker, F. [illegible] Kempenar and W. F. Swank.

ALBUQUERQUE, N. MEX.—The Rio Grande Woolen Mills have filed application for increase of capital from $[illegible] to $1,000,000.

BELLINGHAM, WASH.—The Bellingham Bay Brewery Co. has decided to enlarge its plant and double capacity. Work will soon begin. Est. cost $30,000.

SEATTLE, WASH.—The Perkins Machine Co., of Seattle, [illegible] H. Perkins, Pres., and the Challoner Machine Co., of Oshkosh, Wis., W. C. Ruckman, Pres., have consolidated under the name of Challoner-Perkins Co., and will increase the capacity of local plant to more than double its present capacity. Capital, $150,000. Mr. Perkins will be president of Seattle house.

CHEHALIS, WASH.—The milk condensing plant, destroyed by fire here, will be rebuilt, not by old company, but by a company of local capitalists, among whom are C. W. Maynard, State Treas., and J. W. Reynolds. A company has been organized, capitalized at $30,000, all paid in. The new company has bought machinery of old company, much of which was not injured by the fire. Work is to commence at once on new buildings.

SAN MATEO, CAL.—San Francisco parties have been here looking for a location for a brewery, which they are thinking of establishing here.

VANCOUVER, B. C.—P. Burns & Co., wholesale packers, intend building in Vancouver an abattoir, cold storage and pork-packing plant. Cost, $150,000.

VANCOUVER, B. C.—Armstrong, Morrison & Co., City, intend to establish a plant for the manufacture of cement blocks and bricks for building purposes.

FERNIE, B. C.—O. A. Robertson and F. B. Lynch, president and secretary, respectively, of Elk Lumber & Mfg. Co., of St. Paul, Minn., will build a mill here, 40 x 220 ft., with a separate building for power house. They are reported as being in the market for an electric plant.

WINNIPEG, MAN.—The Henderson Roller Bearing Co. of Toronto, Ont., proposes erecting a large building here.

MISCELLANEOUS CONTRACTS.

GAS WELLS.—Leavenworth, Kan.—Merchants of this city have raised $2,500 to sink a prospecting well for gas.

DAM.—Lansing, Mich.—Platt Bros. are stated to be having surveys made looking to the rebuilding of the dam at Dimondale.

LEVEE WORK.—Sacramento, Cal.—Contract for repair work on levee at Chicory Ranch has been let to Darby Laydon for $4,221.

DREDGING.—Norfolk, Va.—Bids are asked until Dec. 30 for dredging in Appomattox River. Capt. E. Eveleth Winslow, U. S. Engrs. (Advertised, Engineering News.)

BREAKWATER.—London, Ont.—By law to raise $15,000 for breakwater at West London, may be voted on. Ormsley Graydon is Cy. Engr.

BOX LOCKERS.—Jeffersonville, Ind.—Bids are asked until Dec. 30 for furnishing 5,000 box lockers. J. M. Marshall, A. Q. M. G., U. S. A.

TELEPHONE EXTENSION.—Fort William, Ont.—Water, Light and Telephone Board will ask Council for $22,000 for telephone system extension.

FIRE ENGINES.—Regina, N. W. T.—Secretary-Treasurer of City Corporation has been instructed to call for tenders for a steam or gasoline fire engine.

SUBWAY.—Toronto, Ont.—City Engineer has submitted to Board of Control new plans for a subway at Lansdowne Ave. The estimated cost is $70,000.

BOILERS.—Winnipeg, Man.—Contract for boilers for new C. P. R. R. hotel in this city has been let to Babcock & Wilcox Co., of Montreal, for about $9,000.

COAL MINING APPARATUS.—Youngstown, O.—James McMahon, Struthers, O., is reported to be in the market for purchase of considerable coal mining apparatus.

DRAIN.—Sarnia, Ont.—Bids are asked until Jan. 7 for repair of Waddell Creek Drain, in this township, for a distance of 1,496 rods. Maggie Lowrie, Township Clk.

QUARRY STRIPPING.—Ohio.—Apex Equipment Co., 11 Broadway, New York, is calling for bids for 20,000 yds. quarry stripping in Ohio. (Advertised, Engineering News.)

SUBWAY.—Rochester, N. Y.—Contract for constructing subway under the tracks of N. Y. C. & H. R. R. at Union St. has been let to Casey & Murray, Rochester, for $34,000.

DREDGING.—Portland, Ind.—Jay Griffith, County Surveyor, has begun surveys looking to the dredging of the Salamonica River for a distance of 20 miles. Est. cost of dredging is $100,000.

DRAINAGE CANAL.—Hutchison, Kan.—Council, according to reports, will probably order work begun in the spring on the construction of proposed Cow Creek canal. T. G. Elbury is Cy. Engr.

DRY DOCK.—Boston, Mass.—State Harbor and Land Commissioners, Woodward Emery, Chn., held a public hearing Dec. 8 in regard to projected construction of a public dry dock in Boston Harbor.

DREDGING.—New Orleans, La.—Bids are asked by Sewerage and Water Board until Jan. 25 for excavation of about 55,000 cu. yds. by floating dredge. F. S. Shields, Secy.; Geo. E. Earl, Gen. Supt.

BARGES AND BOATS.—St. Louis, Mo.—Bids are asked until Jan. 4 for furnishing wooden flat barges and wooden or steel flat boats. Major Thos. L. Casey, U. S. Engrs. (Advertised, Engineering News.)

OIL PIPE LINE, ETC.—Fort Madison, Ia.—Prarie Oil & Gas Co., of Neodoska, Kan., recently incorporated with $2,500,000, proposes, it is stated, to pipe natural gas from Kansas gas and oil fields to Chicago, Ill.

CREMATORY.—Sedalia, Mo.—Missouri, Kansas & Texas Ry. has had plans drawn for erection of crematory at its hospital at East Sedalia for incineration of deceased employes. F. W. Bailey, Sedalia, is Res. Engr., M., K. & T. Ry.

CANAL.—Annapolis, Md.—Two bids were received by State Board Public Works, Dec. 1, for purchase of State of Maryland's interest in the Chesapeake & Ohio Canal. K. H. Wheelright, said to be representing the B. & O. R. R., offered $151,000 and F. S. Landstreet, who is understood to be representing the Western Maryland Ry. Co., offered $155,000.

DREDGING.—Boston, Mass.—Bids are asked by State Harbor and Land Commissioners, State House, until Dec. 15 for about 10,000 cu. yds. dredging at entrance of Witchmere Harbor, Harwichport. Woodward Emery, Chn. Comrs.

TELEPHONE EXTENSIONS.—Harrisburg, Pa.—Pennsylvania Telephone Co. will vote Jan. 25 on increasing capital stock from $3,000,000 to $5,000,000. It is understood that some of this increase will be used for making extensions.

BREAKWATERS, DREDGING.—Port Stanley, Ont.—Bids are stated to be asked by Department of Public Works, Fred Gelinas, Secy., Ottawa, Ont., until Dec. 19 for construction of two breakwaters and for dredging at Port Stanley.

HARBOR IMPROVEMENTS.—Victoria, B. C.—Canadian Pacific Ry. has acquired Laurel Point, Victoria Harbor, and will, it is stated, spend $100,000 in improving the harbor. Wharves to cost $100,000 are also to be erected. G. H. Webster, Vancouver, B. C., is Div. Engr.

CAST-IRON PLATES.—New York, N. Y.—It is stated that New York & New Jersey Co. has let a contract for 10,000 tons of cast-iron plates to Davies & Thomas, Catasaqua, Pa. The plates are to be used in the tunnel which the company is constructing under the Hudson River.

LEVEE.—Indianapolis, Ind.—Recent report of C. C. Brown and B. J. T. Jeup, Cy. Engr., recommends that both the north and south banks of Fall Creek, from Capitol Ave. to Central Ave. be improved with a levee and street, and that the work be done by Board Public Works.

TUBE.—Montreal, Que.—Contract for supplying 40,000 lin. ft., 10-in. tubing for pneumatic tube system in this city and Toronto has been let to MacLaren & Co., Glasgow, for $52,800. The work is to be commenced next spring. John Galt, C. E., Toronto, Ont., is Consult. Engr.

DREDGING.—New York, N. Y.—Henry Dubois & Sons, 17 State St., New York, have been awarded contract for dredging about 500,000 cu. yds. in North River, bids for doing which were received Nov. 30 by Maurice Featherson, Comr. Docks. Itemized bids are given under Contract Prices.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Dec. 20 for furnishing naval supplies for New York Navy Yard. Among the articles desired are Portland cement, fire brick, bolts and nuts, screws, files, drills, lumber, etc. H. T. B. Harris, Paym.-Gen. U. S. N.

PIERS, CEMENT.—San Francisco, Cal.—Harbor Commissioners have awarded contract for building two piers to Healy, Tibbitts & Co., 22 Market St., San Francisco, for $329,673. Bids were received Nov. 16. About $42,000 will also be spent for cement, the contract for this having been let to Holmes Lime Co.

DIKE.—Mare Island, Cal.—Bids are asked by Bureau Yards and Docks, M. T. Endicott, Ch., Washington, D. C., until Jan. 14 for construction of 2,000 ft. longitudinal dike at Mare Island Navy Yard. Estimated cost of work is $90,000 and specifications may be seen at office of Engineering News, 220 Broadway, New York.

DREDGING, BREAKWATERS.—Rondeau, Ont.—Dominion Government, according to reports, is taking bids until Dec. 17 for construction of two breakwaters and for dredging at this place. Plans may be obtained on application to the Postmaster, Rondeau, and at office of H. A. Gray, C. E., Toronto, Ont., and J. G. Sing, C. E., London, Ont.

TELEPHONE SYSTEM, OIL PIPE LINE.—San Luis Obispo, Cal.—S. D. Ballou has applied to the Supervisors for franchise to construct and maintain telephone system along public roads of San Luis Obispo County, also to construct and maintain a pipe line to carry oil. Bids for franchise will be received up to Jan. 3. H. H. Carpenter is County Clk.

CAUSEWAY.—Galveston, Tex.—Advices from this city state that a company is being organized to build a double-track causeway across Galveston Bay to replace the present trestles. It is proposed to construct the causeway at the point where the single railway trestle connects Galveston Island with the mainland. Southern Pacific Ry., Rock Island and M., K. & T. Ry. are reported to have agreed to aid in the work.

EARTH SPREADERS.—Washington, D. C.—Following bids were received by Isthmian Canal Commission Nov. 30 for furnishing earth spreaders: Mann-McCann Co., Chicago, Ill., $3,500 each, packed for export delivery at New York city; O. B. Jordan, Harvey, Ill., three spreaders, $6,000 each, delivered at Harvey, Ill., in 80 days, on tracks at Colon in 6 months; if delivery is made f. o. b. Illinois the price will be for spreader of 100 000 lbs. capacity $3,883 and for 60,000 lbs. capacity $3,700.

CANALS.—New Orleans, La.—Following bids were received Nov. 30 by the Sewerage and Water Board for constructing (1) Orleans Relief Canal, and (2) Melpomene St. canal, both to be lined with wood: James Forrestal Co., St. Paul, Minn., (1) $185,654, (2) $110,055; Dowdle & Windett, Hennen Bldg., New Orleans, (1) $155,990, (2) $98,425; Charles R. Corbett, 204 Valette St., New Orleans, (1) $149,000; W. O. & C. G. Burton, Hibernia Bank Bldg., New Orleans, (1) $141,245, (2) $97,910; James Z. George Co., Tulane-Newcomb Bldg., New Orleans, (1) $111,810. Itemized bids for the Orleans Relief Canal are given under Contract Prices.

MOVING PLATFORM, SUBWAY.—New York, N. Y.—Rapid Transit Commission gave a public hearing Nov. 29 on application of the Schmidt & Gallatin syndicate for a franchise to build a moving platform under 34th St., from First to Ninth Ave. It is reported that the Commission will grant the desired franchise. The project proposes the construction of two tunnels through 34th St., one carrying the east-bound platforms and the other those going west. Each tube will be about 20 ft. wide and about 14 ft. deep. In each tunnel there are to be three constantly moving platforms. These platforms will be 6 ft. wide and move at varying rates of speed.

UNLOADING MACHINES.—Washington, D. C.—Bids as follows were received Nov. 30 by Isthmian Canal Commission for furnishing unloading machines and unloading plows; (1) 60-ton unloader, (2) two 25-ton unloaders, (3) two extra flexible steam connections, (4) one extra 1¾-in. wire cable, (5) one extra 1¼-in. wire cable, (6) two right-hand unloader plows for car 9 ft. wide, (7) one right-hand unloader plow for car 8 ft. 9 ins. wide: Lidgerwood Manufacturing Co., New York city, (1) $5,364, (2) $7,928, (3) $120, (4) $444 wire cable and $252 crucible steel wire cable, (5) $354 wire cable and $208 crucible steel wire cable, New York delivery; Marion Steam Shovel Co., Marion, O., (6) $1,470, (7) $735, f. o. b. Marion without boxing.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 20 for furnishing naval supplies at Navy Yard, Pensacola Fla., and Naval Stations, Key West, Fla., and New Orleans, La. Among the articles desired are weatherproof wire, miscellaneous electrical material, Bangor slate, brick, Portland cement, coral rock sand, oakum, drills, pile-driving hammer, miscellaneous hardware and hand tools, foundry furnaces, bilge pumps, feed pump, duplex steam pumps, centrifugal pump, hoisting engine, concrete mixer, oak knees, white pine, ash, etc., yellow pine, creosoted piling, sash, blinds, etc., sheet copper, pig iron, bar iron, bar steel, Sanderson tool steel, tin, copper. H. T. B. Harris, Paym.-Gen., U. S. N.

COAL STORAGE AND HANDLING PLANT.—New Orleans, La.—Following bids were received by Bureau Yards and Docks, Washington, D. C., Dec. 3 for constructing coal storage and coal handling plant at Naval Station, New Orleans; bids were on competitive plans: Brown Hoisting Machinery Co., 26 Cortlandt St., New York, N. Y., item 1, $143,440; New Jersey Foundry & Mach. Co., 9-15 Murray St., New York, item 1, $240,000; The Wellman-Seaver-Morgan Co., 1298 Central Ave., Cleveland, O., item 1, $147,897, $147,714; Penn Bridge Co., 312 Bond Bldg., Washington, D. C., item 2a, $148,000, (b) $145,000, (c) $147,250, (d) $148,000 (e) $148,000; Augustus Smith, 39 Cortlandt St., New York, item 1a, $129,400, (b) $150, (c) $23,620, (d) $2,900, (e) $5,150, (f) $5,090, (g) $19,500, (h) $11,000, (i) $16,000; Snare & Triest Co., 39 Cortlandt St. New York, item 1, $146,000, (2) $147,000, (3) $144,000, (4) $144,000, (5) $146,000, (6) $148,000, (7) $148,000, (8) $7,500, (9) $11,400, (10) $16,000; The Scofield Co., 906 Pennsylvania Bldg., Philadelphia, Pa., item 1, $146,700, (1a) $148,000, (1b) $144,000.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 20 for furnishing naval supplies at Navy Yards, Norfolk, Va., and Charleston, S. C. Among the articles desired are arc lamps, incandescent lamps, chasers for Hartness automatic die, Reversite circuit breakers, motor, Walker Electric Co.'s switchboard panels, cabinet and panel boards, steel conduit, W. S. Hill Electric Co.'s switches, Leslie pressure regulator, wire, dynamo cable, recording wattmeters, miscellaneous electrical supplies, building brick, fire brick, Diamond fire brick, broken stone, sand, Portland cement, tools for Jarecki pipe-cutting machine, Norton emery wheels, hose nozzles, screw plates, scrapers, shovels, punches, ash, birch, yellow pine, doors and sashes, pig iron, plain and galvanized sheet steel, bar steel and shapes, Kidd drill rods, Metallos tool steel, sheet tin, hose, rubber gasket, medium hard rubber, magnesia pipe covering, brass pipe, steel tubes, drawing instruments, cypress water tanks and steam boilers. H. T. B. Harris, Paym-Gen., U. S. N.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, Navy Department, until Dec. 13 for furnishing at Navy Yards, Mare Island, Cal., and Puget Sound, Wash., a quantity of naval supplies. Among the articles desired are: recording wattmeters, voltmeters, conduit, engine indicators, copper wire, magnet wire, single and twin lighting wire, fuse wire, electric clusters, miscellaneous electric supplies, sand, stone, limestone, Portland cement, brick, lamps, lanterns, signal lights, lenses, leather and belting, steel wire, vises, band saws, files, ratchets, wrenches, hinges, locks, wood screws, machine screws, rivets, nails, tacks, bolts and nuts, nuts, hooks, hooks and eyes, washers, tachometers, drills, reamers, garbage and push carts, wheelbarrows; ash, cedar, fir, hickory, white oak staves; oak, maple mahogany, Oregon pine, sugar pine, poplar, redwood, flooring, ceiling, stairs, window and door frames, transoms, balustrade, etc.; poplar, spruce, brass, lead pipe, Tobin bronze, I-beams, round iron, galvanized iron, pig lead, corrugated roofing, steel plates, tool steel, galvanized sheet steel, nickel steel, "Novo" tool steel, mild steel, sheet steel, roofing tin, steel bars, Banca tin, ingot tin, pig lead, zinc sheet, boiler zincs, ingot copper, copper sheet, asbestos gaskets, vulcanized rubber gaskets, "Garlock" and "Peerless" packing, steam hose, pump valves, gate valves, Eastwood valves, Leslie valves, Lunkenheimer pop valves, soil pipe, iron pipe and couplings, flexible tubing, bell and spigot pipe, condenser tubes, copper pipe, brass tubes, brass pipe, mild steel tubes, magnesia pipe cover, McKellar's steam traps, miscellaneous pipe fittings, steam gages, drain tile, sinks, telephone system; McCanna's adjustable thread and milling tools, automatic drilling and tapping machine, arbor and mandrel press, material for two boilers, searchlight, pumps and Fuller cocks. H. T. B. Harris, Paym.-Gen., U. S. N.

MINING NOTES.

MILL.—Utah.—It is reported that a mill is to be built in the spring for the Central Consolidated group of mines. C. A. Bailey, Grass Valley, Cal., is interested.

MATTING FURNACE.—Boise, Idaho.—Advices from this city state that a matting furnace is to be installed at Lost Packer mine at Loon Creek, of which Jay A. Czizek is Mgr.

SMELTING PLANT.—Baker City, Ore.—It is probable that a smelting plant will be installed for the Climax group of mines, of which Philip R. Bishop is part owner.

HOISTING WORKS.—Salt Lake City, Utah.—The Frisco Mining Co., of Salt Lake City, Utah, D. P. Rohlfing, Mgr., will soon equip its beaver County mine with hoisting works.

REDUCTION WORKS.—Salt Lake City, Utah.—New York Giant Mining Co., Wilbur F. Babcock, Mgr., Salt Lake City, contemplates installation of reduction works, according to reports.

AIR COMPRESSOR.—Bingham, Utah.—It is stated that A. L. Jacobs, Salt Lake City, Utah, Manager of the Butler-Liberal, at Bingham, will equip the property with a large air compressor.

MINE MACHINERY, REDUCTION WORKS.—Utah.—Landecker mine will be equipped, it is stated, with mine machinery and reduction works. D. H. Jackson, Placerville, Cal., is interested.

MINING MILL.—Salt Lake City, Utah.—Local reports state that George Brown and Fred Calles, owners of the Red Light group of claims on Virginia River, contemplate erection of a mining mill.

COMPRESSOR PLANT, DRILLS.—Salt Lake City, Utah.—The New England Gold & Copper Co., of Bingham, Henry M. Adkinson, Mgr., will, it is stated, soon put in a compressor plant and machine drills.

MINING MILL.—Salt Lake City, Utah.—Curtis P. Mason, representative of Fairbanks, Morse & Co., has been awarded the contract for the erection of a mining mill at the mines at Spruce Mountain, out of Wells, Nev. Engineer is now engaged upon the plans for the plant.

REDUCTION WORKS.—Bakersfield, Cal.—Reduction works may be installed at the Santa Rosa mine, owned by Bludgett Co., Bakersfield.

CONCENTRATOR.—Salida, Cal.—Liberal Bell Mining & Development Co., Salida, D. J. Cramer, Pres., contemplates erection of concentrator.

MINING DEVELOPMENT.—Mullan, Idaho.—It is reported that owners of Snowstorm mine contemplate expending $50,000 this winter for improvements. H. E. Chaney, Missoula, Mont., is interested.

MINE DEVELOPMENT.—San Diego, Cal.—It is stated here that word has been received from the Picacho Mining District that the directors of the California King Co. have set aside $50,000 for improvements, $30,000 being for development work, $15,000 for repairs of the railroad to the mines, and $5,000 for mills.

NEW COMPANIES.—New York, N. Y.—Dora Mining Co., of Tacoma, Wash., has been incorporated with $1,000,000 capital. Wm. M. Ebner, Juneau, Alaska, is interested.——Rustler Ditch & Mining Co., of Milwaukee, Wis., has been incorporated with $40,000 capital. T. A. Camfian, Nome, Alaska, and M. R. Weise, of Milwaukee, are interested.——Tom and Jerry Mining Co., of Webb City, Mo., has been incorporated with $50,000 capital. A. L. Shepard, Chicago, Ill., is interested.

U. S. POSSESSIONS AND CUBA.

ELECTRIC PLANT.—Hawaii.—Honolulu press reports quote W. E. Rowell, C. E., as stating that a company was to be incorporated to generate electricity by a plant situated on the Wainiha River.

WHARF.—Hawaii.—C. S. Holloway, Supt. Pub. Wks., Honolulu, is taking bids until Dec. 12 for furnishing material and labor for constructing wharf and approach thereto at Kawaihae Landing, District of Kohala.

GAS MAINS.—Hawaii.—The contract for furnishing about 15 miles of mains for the Honolulu Gas Co. has been let to Honolulu Iron Works. Gas company is stated to have awarded contract for installing plant complete to a San Francisco company.

DOCK.—Hawaii.—Advices from Honolulu state that following bids were received Nov. 19 for the excavation of the new Alakea St. dock: Lord & Belsor, $209,000; North American Dredging Co., $204,778; L. M. Whitehouse, $215,860; Cotton Bros. & Co., $1[illegible],900; Atlantic, Gulf & Pacific Dredging Co., $192,000; John Walker, $168,000.

MEXICO.

RAILWAYS.

CITY OF MEXICO.—Advices from this city state that in the last twelve months there has been a renewal of activity on the part of those railroads that are endeavoring to reach the west coast of Mexico. At present there are seven companies which have lines projected toward the coast. These are the Orient, which is being built to Topolobampo; the Sierra Madre, which has applied for a concession to enter Agaibampo; a London company, which has been organized to build a road south from Hermosillo to Agaibampo or to Topolobampo; the International, which has surveyors already at work on its proposed extension to Mazatlan; the building of a line down the coast to Mazatlan, which is backed by English capital; the Central has located a route for the extension of its Colima line to Manzanillo, and the completion of the port works is all that prevents the Tehuantepec from already having complete transcontinental transportation facilities.

GUANACEVI.—Parral & Durango R. R. Co. is stated to have decided to extend its line from Rosario to Guanacevi, 90 kilometers, the route having been surveyed and a concession obtained. Jas. I. Long, Parral, Chihuahua, Mex., is Gen. Mgr. It is thought that the National lines will also build a branch to that place, as the distance from Tepehuanes on the International road is less than from Rosario, from which point the other road would need to build about 90 kilometers of track. Construction by either road is expected to commence within 60 days.

TABASCO.—The date for the completion of the first ten kilometers of the railroad known as the Paso de Cardenas & Ville del Pardaiso line, in the state of Tabasco, has been extended for twelve months, from Nov. 3, 1904.

TANTIMA.—P. W. Henry, W. K. Runyon, L. A. Bouley and Sherwood Brooks, of New York city, with E. K. McElwee, Gen. Mgr. of the Pan-American Co., are making preliminary survey for construction of a railroad from Tantima, Vera Cruz, to the head of navigation on the San Geronimo River, for the purpose of opening up the extensive asphalt deposits of the Pan-American Co. near Tantima, which are now being worked on a very small scale on account of the lack of transportation facilities. The road will be about 24 miles long.

TAMPICO.—It is stated that work will probably begin in the spring on the construction of the San Antonio & Rio Grande R. R., which is to be built from San Antonio, Tex., to the Rio Grande. This line will open up a new territory and give a shorter route from St. Louis to Tampico by 135 miles, and with the completion of the new line of the Mexican Central to Tampico, will reduce the distance to Mexico City 175 miles. The project is backed by Col. L. J. Polk, until recently Vice-President and General Manager of the Texas lines of the Santa Fe system.

LIGHT AND POWER PLANTS.

ACAPULCO.—Guerrero Development Co., of New York, which is constructing a tunnel at the Veta Madre mine, near Chilpancingo, is having plans made for a power plant, on the San Cristobal River, near Acapulco, for the Poder de Dios mine. A mill and cyanide plant is also to be installed. J. J. Moylan, City of Mexico, is Vice-Pres. of company.

CITY OF MEXICO.—According to the terms of the concession recently granted Ernesto Brunel for the utilization of 7,000 liters of water per second of the Angulo or Zacapu River, in the state of Michoacan, for motive power, he is authorized to import free of custom house duties all apparatus, machinery and tools, etc., which he may need for the power plant. The granting of this concession was mentioned in our issue of Nov. 17.

CITY OF MEXICO.—The Zoquitleco waterfall in the state of Chiapas, Mexico, has been sold to a Belgian syndicate for $400,000. It is planned to establish a power plant to operate saw mills and other industries owned by the syndicate.

EL ORO.—Westinghouse Electric & Manufacturing Co., through its agents, G. & O. Braniff & Co., of Mexico, have been awarded contract for all the electrical apparatus to be installed by the El Oro Mining & Ry. Co., El Oro, Mex. Contract amounts to about $100,000.

NEXACA.—The Riter Conley Mfg. Co., of Pittsburg, Pa., is stated to have been awarded contract for power plant for Mexican Light & Power Co. at Nexaca. The contract calls for the construction of a plant, the building of the steel penstocks, the construction of upward of 2,000 steel towers for the transmission lines, and the supplying of all the steel work for the substations. The contract will approximate $1,000,000.

TIERRA NUEVA.—Governor Escontria, of San Luis Potosi, has granted permission to the inhabitants of Tierra Nueva, district of Santa Maria del Rio, to install an electric light plant with the town funds.

BUILDINGS.

CHIHUAHUA.—City Council has approved the plans for the new city market building that is to be erected here. Alfred Giles, San Antonio, Tex., is Arch.

CITY OF MEXICO.—Plans are reported as completed for the National theater which the government will soon begin to construct on land near the new general post office. The building will be built of white stone, marble, steel and glass, and will be fireproof. The excavation for the foundations is stated to have been commenced. The appropriation made by the Mexican Government for the construction of this theater is $5,500,000. It will have a seating capacity for about 20,000 persons.

CITY OF MEXICO.—A new market place will be erected on the site occupied by the old Martinex de la Torre market which collapsed some months ago.

CITY OF MEXICO.—Plans have been approved by the Department of the Interior for the construction of police stations in all the comisarias in the City of Mexico. Work will commence in a few weeks on the first building, that for the sixth comisaria.

WATER-WORKS.

CITY OF MEXICO.—Engineers in the employ of the Mexican Government have been making surveys for the selection of dam sites on which to erect two dams for storing water for the Laguna cotton district. A dam site is stated to have been selected in Canyon de Fernandez y Puerto Patron, 73 kilometers from Lerdo.

SEWERAGE.

MAZATLAN.—Steps have been taken by the business men of this city toward securing water-works and drainage system for this city. The cost of these works has been estimated at $1,800,000. Negotiations are reported to be under way with Col. E. K. Smoot, the contractor, of 814 Second Avenida Balderas, City of Mexico, to undertake the work. Emilio Philippi and Victor Patron, Mazatlan, are stated to be interested.

MANUFACTURING PLANTS.

CITY OF MEXICO.—A French company has applied to the Department of Fomento for a concession to establish a wood mosaic factory in the City of Mexico. It proposes to use fine Mexican woods for the product of the factory, to be applied to decorating walls and ceilings. Not less than $100,000 is to be invested in the industry.

CITY OF MEXICO.—The Fuel Economizing Co., represented by C. G. Jackson, whose office is in the Centro Mercantil, has contracts for three extensive plants on sugar plantations on Pacific Coast, state of Sinaloa.

MONTEREY, NUEVO LEON.—The state government has granted a concession for the establishment of a large carriage factory here.

MONTEREY.—It is reported that the Cuauhtemoc brewery will install a 200-ton ice-making plant.

TAMPICO.—The Tampico Packing Co., which is erecting a 25-ton ice plant here, will also erect a cold storage plant of large capacity.

TOLUCA.—The Compania Molino de la Union, S. A., has been organized with a capital stock of $1,000,000, all paid in. It has its principal offices at Toluca, and its object is to operate the Molino de la Union flour mills and the electric power plant at Zepayautla. Alberto Henkel, of Toluca, is Pres.

MISCELLANEOUS.

MINING HOISTS.—San Lorenzo, Durango.—The American Mexico Mining Co. is to install three 25-HP. hoists at its various properties at San Lorenzo.

MINING MACHINERY.—Cananea, Sonora.—It is proposed, in the near future, to install modern machinery at the Lightfoot and Howard mining property, near Cananea. R. K. Clancy is owner of the mine.

OIL FIELD DEVELOPMENT.—Tampico.—H. I. McDonald, an oil operator of Marietta, O., has been making an investigation of the oil fields of this part of Mexico, with the view of making investments in this country.

MINE DEVELOPMENT.—Cananea.—The work of unwatering the Nimo Mexicana near this place is progressing, and it is said that as soon as this is completed the development of the mine will be begun by contract work.

SMELTER.—Inde District, Durango.—Messrs. Benton and McDonald, well known mining men, will shortly begin the construction of a smelter in the Inde District, state of Durango, to handle the output of their mines and the other mines in that vicinity.

WHARF.—La Dicha, Garrero.—Thomas McManus, representing La Dicha Mining & Smelting Co., has obtained a concession from the government to construct a wharf at Port Marquis, on the Pacific coast, to which place the company will build a railroad from La Dicha.

SMELTER.—Durango.—It is stated that construction of custom smelter at this place, concession for which has been granted to Chas. C. Codman, Durango, will be commenced as soon as A. B. Callender, of Monterey, has completed his report on the mines and available ore supply in this district.

OIL FIELD DEVELOPMENT.—City of Mexico.—Advices from this city state that Daniel Guggenheim and other prominent stockholders of the American Smelting & Refining Co. have been investigating the oil fields of Mexico, and it is reported that they are to become largely interested in the oil producing and refining industry of that country.

SMELTER.—Oaxaca.—C. A. Hamilton, of Oaxaca, is stated to have organized a company of American capitalists, with a capital stock of $1,000,000 gold, for the purpose of erecting and operating a smelter in Oaxaca. The proposed smelter will have a daily capacity of 140 tons of ore and arrangements have been made for work to begin on its construction as soon as the plans are finished, which will be in a few weeks.

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TUNNEL.—Guanajuato.—Cooper Shapley, f[illegible]rly with the Durango Development Co., and Charles W[illegible], a civil and mining engineer of Philadelphia, Pa., ar[illegible] Guanajuato for the purpose of making an exhaust[illegible]xamination of the mines which a London and New Y[illegible]ompany propose to drain by means of a long tunn[illegible]ven beneath the deepest workings. It is propose[illegible] use the water from the projected tunnel for irrigatio[illegible]

SANITARY PLUMBING.—Puebla.—The con[illegible] for installing a complete system of sanitary plu[illegible] in the state capitol building at Puebla has been le[illegible]e firm of Cant & Moffat, of City of Mexico, by Go[illegible] Petro Rodriguez.

OIL FIELD DEVELOPMENT.—Vera Cru[illegible] is reported that the J. M. Guffey Petroleum Co., [illegible]sburg, Pa., and Beaumont, Tex., has acquired larg[illegible] of oil land in Mexico and that it will undertake th[illegible] development on a large scale.

TUNNEL.—Durango.—Hilario Lozoya, of [illegible]uato, owner of the Predilecta mine, has completed [illegible]ganization of a company in New York, capitalized [illegible]5,000,000, gold, to drive a tunnel five kilometers in[illegible] in a large property which has been secured by t[illegible]mpany near Guanacevi, state of Durango. The tunn[illegible]ne of the greatest projected in the republic. It i[illegible] the capital has been subscribed and that work wi[illegible] commence.

OIL PIPE LINE, ETC.—Tuxpam, Vera Cruz[illegible] Mexican Oil Corporation, Ltd., an English conc[illegible] has obtained a concession to build and operate an o[illegible] line from its oil field, situated near here, to th[illegible] port. This company has taken steps to develop its pr[illegible] on a large scale. Flowing wells have already be[illegible]ught in and a number of other wells are to be bore[illegible] soon as the necessary machinery arrives. Large [illegible] oil tanks will be built. Sidney A. R. Sketchly, M. E., has arrived from England to take charge of the property as manager.

FOREIGN CONTRACTS—EXPORT NEWS.

CABLE.—France.—A decree has been published authorizing the Ministry of Commerce, etc., to expend $787,500 on the laying of a cable between Brest and Dakar.

PUBLIC BATHS.—England.—Borough Council of Hammersmith has acquired a site in Lime-grove and proposes to expend $250,000 in the erection of public baths and wash houses.

SEWERAGE.—England.—A conference may be held by the Councils of Glyncorrwg, Margam and Neath relative to a joint sewerage scheme, the estimated cost of which is $400,000.

RIVER IMPROVEMENTS.—England.—Town council of Preston is stated to have decided to promote a bill in Parliament for permission to expend $1,000,000 in improving the Ribble estuary.

ELECTRIC LIGHT SYSTEM.—Egypt.—Contract has been entered into between local authorities of Tanta and Eugene Nahman & Co., of that town, for the establishment of an electric lighting system there.

TRAMWAY, REFUSE DESTRUCTOR.—England.—District Council of Aberdare is promoting scheme for electric tramway systems to cost about $350,000 and for erection of a refuse destructor to cost $70,000.

ELECTRIC TRAMWAYS, ETC.—England.—District Council of Aberdare is to apply for power to construct an electric tramway, execute street widenings and erect a dust destructor at total cost of about $470,000.

RAMIE DECORTICATOR.—Russia.—W. H. Stuart, Acting U. S. Vice-Consul at Batum, Russia, reports that he has had several inquiries as to whether a perfected machine for the decortication of ramie is to be obtained in the United States.

ELECTRIC LIGHT PLANT EXTENSION.—England.—Finance committee of the Borough Council of Cardiff has sanctioned the borrowing of $439,340 for extensions of the electric lighting plant and mains. Arthur Ellis is Borough Electrical Engr., and Tramways Mgr.

WORKS.—Ottoman Empire.—The date for opening tenders for the construction of certain works on the Abou-Sead Lazaret, has been extended from Nov. 9 to Dec. 31. Plans and specifications may be obtained at the offices of the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall St., E. C. London, England.

PIPE.—Roumania.—Town Administration of Craiova is asking tenders for about 27,850 meter main cast-iron adduction pipe, 500-mm. diam., and 5,925 meter main pressure pipe, 300 mm. diam. Contract to comprise excavations, complete laying and calking of pipes, fixing of fittings of the manholes, crossings, outlets, sheet pilings and all accessory work. Tenders will be received by "Le Marie de la Villa de Craiova," N. P. Roumanescue, Dec. 16 to 29.

OIL ENGINES AND PUMPS.—England.—Bids are asked by Thomas J. Sworder, Clk., Welwyn Rural District Council, Hertford, until Dec. 19, for supply, delivery, erection and setting to work of two oil engines and two treble ram pumps, together with other machinery, fittings, pipes, tools, etc., in the Parish of Welwyn. Specifications may be obtained from Herbert Walker & Son, Albion Chambers, King St., Nottingham, on payment of $10, which will be returned on receipt of bid.

ELECTRICAL MACHINERY.—Spain.—Faustino Odriozola, U. S. Consular Agent at Santander, Spain, reports that several water-power concessions have recently been granted in his district, some of which will probably be able to develop about 4,000 HP. This should furnish an opportunity to producers of machinery, tubes, and electrical apparatus in America to compete with the French and German firms now studying this field. Rails and rolling stock also will be required by some of the small railroads to be constructed in that vicinity.

ELECTRIC CARS.—Guatemala.—Alfred A. Winslow, U. S. Consul General at Guatemala City, Guatemala, reports that electric motive power may be installed on the street-car lines of that city, which are at present operated by mules. The current will be secured from one of the electric light plants that is run by water power, the power plant being about 30 miles from the city. The street car system is composed of about seven miles of single track, with a prospect of an increase in the near future. Communications addressed to Ricardo Echeverria, Gen. Mgr., of the line will receive due attention.

ELECTRIC TRAMWAYS.—Spain.—The "Gaceta de Madrid" of Nov. 20 contains notices to the effect that proposals have been made by: Don Alvaro López Mora for the concession of an electric tramway in Vigo; The "Compañia Eléctrica Madrilena de Traccion" for the concession of an electric tramway in Madrid from the "Calle de Esparteros" to the "Puerta del Sol;" The "Sociedad Colonia Sanatoria de la Playa de la Malvarrosa" for the concession of an electric tramway in La Malvarrosa, Province of Valencia. One month from the date of the publication of these notices is allowed in which other proposals, on more favorable terms, duly guaranteed, may be made.

CONTRACT PRICES.

WOOD BLOCK PAVING.—New York, N. Y.—Following bids were received Dec. 1 for repaving with wood blocks on a concrete foundation of roadway of Boston road in the Borough of Bronx; (1) U. S. Wood Preserving Co., 29 Broadway, (2) Franklin Contracting Co., 1 Hudson St., (3) Jos. Leopold, 18 Broadway:

	1	2	3
sq. yds. wood block pavement and repair of same for five years..	$2.30	$2.40	$2.50
cu. yds. concrete, including mortar bed	6.95	7.00	5.00
lin. ft. new curb stone, furnished and laid in concrete	1.10	1.20	1.00
lin. ft. old curb stone, redressed, recut and reset	.40	.50	.40
Total	$70,567	$73,280	$68,750

HYDRANTS.—New York, N. Y.—Following bids were received by Commissioner Water Supply, Gas and Electricity, Nov. 30, for furnishing and delivering (1) 700 four nozzle post hydrants and (2) 40 two-nozzle fireboat connection hydrants for high pressure fire service mains: Florence Iron Works, Florence, N. J., (1) $91.50, (2) $50; A. P. Smith Mfg. Co., Newark, N. J., (1) $117.50, (2) $117.50; Kennedy Valve Co., 57 Beekman St., (1) $105.68, (2) $96.37; Ludlow Valve Co., 62 Gold St., (1) $97.50, (2) $96; Jno. Fox & Co., 253 Broadway, (1) $79.50, (2) $74.50; Rensselaer Mfg. Co., (1) $160, (2) $150.

DREDGING.—New York, N. Y.—Following bids per cu. yd. were received Nov. 30, by Maurice Featherson, Comr. Docks, for furnishing all labor and material required for dredging about 500,000 cu. yds. in the North River; all New York bidders: Austin Walsh, 76 Broad St., 24 cts.; Henry Dubois & Sons, 17 State St., 15 9-10 cts. (awarded contract); G. Sanford Ross, 16 4-10 cts.; Jno. Dunfee & Co., 76 Broad St., 24 cts.; International Contracting Co., 10 Battery Pl., 20 cts.; W. H. Beard Dredging Co., 8 Bridge St., 16 cts.

VIADUCT SUBSTRUCTURE.—Akron, O.—Bids were received by City Council Nov. 30 for constructing substructure and superstructure of Mill St. viaduct. The three lowest bidders for constructing the superstructure were as follows: Brackett Bridge Co., Cincinnati, O., $42,621; Massillon Bridge Co., Massillon, O., $43,040; Virginia Bridge & Iron Co., Cincinnati, O., $43,800. For constructing the substructure the itemized bids received were as follows; John W. Payne, Cy. Civil Engr.:

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

GAS MACHINERY.—Syracuse, Ind.—M. M. Smith, of the Sandusky Portland Cement Co., is in the market for coal gas and producer gas machinery.

RELAYERS AND FASTENINGS.—Philadelphia, Pa.—A. V. Kaiser & Co., 222 South Third St., state that they are in the market for 500-600 tons of 40-lb. steel relayers and fastenings.

VAULT DOORS, HEATING, COMPRESSED AIR PLANT.—Jackson, Ky.—H. H. Gibson, Box 158, wishes catalogues from manufacturers of vault doors and apparatus for heating buildings by hot water or hot air. Also from firms manufacturing compressed air plants for private residences.

ELECTRICAL REPRESENTATION.—Melbourne, Australia.—O. L. Remington of Wm. McLean & Co., Electrical Engineers and Contractors, who has been in this country for some weeks in behalf of his firm, intends to be in New York about Dec. 21, and would be pleased to hear from manufacturers of power station or electrical machinery desiring an Australian connection. While in New York Mr. Remington may be addressed care the Astor House.

HYDRAULIC DREDGING.—Geneseo, Ill.—Frank S. Haynes, Comr. of the Green River Special Drainage District, desires to communicate with hydraulic dredge firms. He states that there will be several million yards of excavation.

RAILROAD EQUIPMENT.—Deadwood, S. D.—Murray, Phillips & Co., 24 Lee St., will probably be in the market early in the spring for a small amount of railroad equipment, including structural supplies and rolling stock, preferably second-hand.

WATER PIPE.—New Bedford, Mass.—Water Board has awarded contract for furnishing 226 net tons 3 to 12-in. pipe and five net tons special castings to the Warren Foundry & Machine Co., Phillipsburg, N. J., at $25.20 and $35 per ton, respectively.

PIPE.—Salem, Mass.—Sewerage Commission has signed contract with U. S. Cast Iron Pipe & Foundry Co., by which the latter will furnish 10,000 ft. 30-in., and 1,600 ft. 60-in. iron pipe at $21.90 and $22.40 per ton respectively.

GRAVELING.—Green Bay, Wis.—Contract for graveling Ninth St., for a length of 8,600 ft. and a width of 12 ft., requiring 2,683 cu. yds. gravel has been let to J. K. Delaney, Green Bay, Wis., at 50 cts. per cu. yd., for gravel and lump bid of $258.50 fur surfacing and ditching. Bids were received Nov. 22. W. W. Reed is Cy. Engr.

THE BUILDERS IRON FOUNDRY, Providence, R. I., has closed contracts for building the following horizontal tandem duplex pumps: Dedham Water Co., Dedham, Mass., Mr. Percy Blake, Consulting Engineer, 2½ million capacity; for Sayles Bleacheries, Saylesville, R. I., a pump of 2¼ million capacity.

THE BOOTH WATER SOFTENING CO., 126 Liberty St., New York, recently incorporated, proposes to manufacture and install water softening plants for railroads, industrial works, etc. Those particularly interested are H. H. Sutro, A. C. Christensen, L. M. Booth, all of whom have been until recently connected with the Industrial Water Company which concern is engaged in the same line of work.

Bids received at Akron, O., Nov. 30, for Constructing Substructure of Mill St. Viaduct.

Bidders.	2,170 cu. yds. excavation for foundation.	5,951 cu. yds. concrete.	34,000 lbs. steel rods.	132 7-in. wrought iron pipe for trolley poles and lamp sockets.	80 7-in. wrought iron pipe for drain pipe.	1,550 sq. yds. brick paving, in place.	1,550 sq. yds. medina block.	1,600 ft. concrete curbing.	8,309 sq. ft. cement sidewalk.	Resetting curb.	12,000 cu. yds. refilling.	Two catch basins, complete.	Totals.
Hunkins Bros. Const. Co., Cleveland, O.	.35	$7.25	.07	$1.00	$1.00	$1.35	$4.05	.50	.10	.10	.70	$40.00	$64,977
John Crisp & Son, Akron, O.	.40	6.35	.04½	.95	.95	1.30	3.25	.35	.12½	.10	.60	60.00	56,359
Moore-Mansfield Const. Co., Indianapolis, Ind.	.40	5.14	.03½	.80	.80	1.10	3.20	.60	.13	.20	.36	50.00	45,941
Dan M'Garry, Akron, O.	.30	5.37	.03	1.00	1.00	1.10	2.60	.35	.12½	.10	.30	50.00	44,873
E. McShaffrey & Son, Akron, O.	.35	5.88	.05	....	....	1.15	2.45	.26	.09	.15	.35	100.00	48,816
Williams Bros. & Morse Co., Cleveland, O.	.60	6.25	.03¾	1.00	1.00	1.80	3.00	.36	.12	.15	.60	50.00	56,293
Chas. C. Hustis, Kent, O.	.50	7.00	.03½	.70	1.00	1.75	2.00	.30	.20	.10	.60	25.00	59,218
Geo. Crisp & Son, Akron, O.	.25	4.85	.02½	.90	.70	1.50	2.65	.22	.10½	.07	.35	35.00	42,357
Savage Const. Co., Chicago, Ill.	.50	6.90	.04	1.00	1.50	2.25	3.00	.40	.15	.25	.50	45.00	59,879
James Wildes, Akron, O.	.20	5.85	.03¼	.60	.60	1.15	3.25	.30	.14	.06	.35	35.00	49,213
J. M. Davidson, Akron, O.	.50	6.45	.03	....	....	1.75	3.75	.45	.14	.10	.80	35.00	60,647
Hallinan Bros., Akron, O.	.30	6.50	.03	1.00	1.00	1.20	2.50	.35	.13	.20	.50	30.00	53,380
Hunt & Wigley, Akron, O.	.50	5.10	.03	.90	.90	1.10	3.50	.31	.11	.08	.23	35.00	44,016
Forter-Miller Engineering Co., Pittsburgh, Pa.	.20	5.33	.05½	.60	.54	1.40	2.07	.20	.16½	.10	.50	50.00	48,300
Geo. W. Carmichael & Co., Akron, O.	.40	7.63	.03	.79	.79	1.10	2.50	.30	.14½	.15	.35	20.00	58,966
S. C. McGowan, Akron, O.	.45	6.50	.04	.16	.16	1.20	2.75	.36	.18	.10	.40	48.00	54,142
S. W. Parshall, Akron, O.	.05	3.50	.30	1.00	1.00	1.20	2.60	.50	.14	.15	.72	60.00	47,962
A. H. Jacoby & Co., Niles, O.	.50	6.55	.08 8/15	1.20	1.20	1.40	2.20	.45	.12	.10	1.00	100.00	62,808
C. H. Fath & Sons Const. Co., Cleveland, O.	.80	8.10	.05	....	....	2.28	3.50	.32	.18	.08	.60	25.00	70,007

FIRE HOSE.—Great Falls, Mont.—Contract for furnishing 500 ft., 2½ cotton, rubber line fire hose has been let to Manhattan Rubber & Manufacturing Co., Lake St., Chicago, Ill., for 70 cts. per ft. Hose is guaranteed for 500 lb. pressure and for five years' wear. Contract includes furnishing four play pipes and one shut-off nozzle. Bids were opened Nov. 14. John E. Moran is Cy. Clk.

MACADAMIZING.—Norwood, O.—Following bids were received by Board Public Service for macadamizing Lloyd Ave.; J. A. Stewart, Cy. Engr., 813 Traction Bldg., Cincinnati, O.; (1) Lewis Eyre, Evanston, O.; (2) Thos. Howard, Jr., Norwood, O. (awarded contract); (3) John Snyder, Norwood, O.:

Bids Received at Norwood, O., by Board Public Service, for Macadamizing Lloyd Avenue.

Items.	(1)	(2)	(3)
Paving, vit. brick, 15 sq. yds., per sq. yd.	$1.50	$1.23	$1.50
Macadam 270 cu. yds. per cu. yd.	1.60	1.74	1.75
Gravel, 50 cu. yds., per cu. yd.	1.25	1.30	1.25
Concrete curb and gutter, 720 lin. ft., per lin. ft.	.65	.57	.60
Grading, 350 cu. yds.	.28	.29	.23
Rolling, 3,200 sq. yds.	.04	.03	.04
3-in. drain tile	.03	.02	.02
Totals	$1,232	$1,170	$1,212

CANALS.—New Orleans, La.—Bids were received by Sewerage and Water Board of New Orleans, Nov. 30 for constructing the Orleans Relief Canal and the Melpomene St. canal, both canals to have wood lining. The total bids for the latter piece of work were as follows: James Forrestal Co., $110,055; Dowdle & Windett, $98,425; W. O. & C. G. Burton, $97,910. For the Orleans Relief Canal the itemized bids received were as follows; (1) James Forrestal Co., St. Paul, Minn.; (2) Dowdle & Windett, Hennen Bldg., New Orleans; (3) Charles R. Corbett, 204 Valette St., New Orleans; (4) W. O. & C. G. Burton, Hibernia Bank Bldg., New Orleans; (5) James Z. George Co., Tulane, Newcomb Bldg., New Orleans:

INDUSTRIAL NOTES.

GRANT L. EGAN, New York, has severed his connection with the firm of Stendicke, Egan & Roe, 61 Fulton St., New York City, and is now doing business at Room 111 World Bldg. Mr. Egan makes a specialty of machinery and electrical construction.

THE CHICAGO PNEUMATIC TOOL CO., of Chicago, Ill., informs us that an order has just been received through its London Branch, The Consolidated Pneumatic Tool Co., for 705 pneumatic tools. The company states that the month of November exceeds that of last year.

THE A. D. GRANGER CO., Philadelphia, Pa., has moved its office to the Commonwealth Trust Building, Chestnut and 12th Sts., where much larger and more commodious offices have been fitted up. Mr. T. M. Simpson remains as manager of this office, his territory covering the Eastern portion of Pennsylvania, from Harrisburg to Philadelphia, and the southern half of New Jersey.

THE GENERAL FIREPROOFING CO., Youngstown, O., is constructing and installing the new steel furniture and fixtures for the Union Stock Yards Bank, which is rapidly nearing completion.

The entire work for this equipment is being constructed of steel plates, the gages varying from No. 10 to No. 22, which means a variation of from ⅛ to 1-32 of an inch in thickness.

The interior part of the counter work will consist of the necessary filing equipment for banking rooms, consisting of deposit ticket files, letter and check files, also files for mortgages, etc. The interior work, such as roll-top desks, bookkeepers' standing desks and typewriter desks are also constructed of steel, giving not only a type of beauty seldom seen in wood construction, but also giving to the Union Stock Yards bank an equipment which will insure safety and protection to all their books, etc., from all average fires which might occur in such a place. The exterior of the counters is constructed of the finest English-vein, imported Italian marble. The grilles are to be a combination of clouded plate-glass and bronze. The wainscot of the entire office is also to be of this same grade of marble.

The floors of this bank are to be constructed of the very finest grade of ceramic mosaic tile, embedded in concrete upon expanded steel mesh. The floor of the counting-room will be covered with the latest and best grade of Potter's cork carpet. The vaults in this bank, which are now completed, consist of a burglar-proof vault which is 7½ ft. in depth, 6 ft. in width and 8 ft. in height, and has a capacity of 160 sq. ft., in which is located a double burglar-proof safe with double steel chest, weighing about 6,000 lbs.

The outer, also the inner door, is constructed of layers of chrome steel, which is the strongest metal known in burglar-proof work. The doors of this vault, with the vestibules, weigh 12,000 lbs. The doors are supplied with three Yale time locks and double combination locks on both doors. They have also installed a large steel chest for the storage of silver and a nest of safety deposit

Bids received at New Orleans, La., Nov. 30, for Constructing Wood-Lined Canals.

Items.	Approximate quantities.	(1)	(2)	(3)	(4)	(5)
Excavation, delivered not over 125 ft. from center of canal	80,000 cu. yds.	$1.00	.60	.50	.65	.437
Overhaul per yard per 100 ft. in excess of 125 ft.	22,000 "	.20	.15	.20	.25	.015
Re-handling excavated material	6,000 "	.20	.60	.30	.25	.265
12-in. round yellow pine piling	81,000 lin ft.	.48	.40	.40	.30	.275
Yellow pine or cypress capping	345,000 ft. B. M.	34.00	37.00	40.00	45.00	28.40
Cypress planking	410,000 "	34.00	37.00	40.00	25.00	29.25
Creosoted yellow pine lumber	490,000 "	45.00	48.00	50.00	45.00	42.75
Yellow pine in bridges	13,000 "	26.00	45.00	40.00	30.00	32.00
Cypress lumber in culverts	64,000 "	34.00	35.00	30.00	25.00	30.00
Concrete	260 cu. yds.	14.00	15.00	20.00	10.00	8.10
Steel rods	14,000 lbs.	.05	.07	.05	.04	.05
Cast iron	9,000 "	.05	.06	.04	.03	.05
3-in. porous drain tile	5,000 lin. ft.	.07	.12	.10	.04	.045
Creosoted 12-in. round yellow pine piling	10,000 "	.58	.60	.65	.45	.41
Totals		$185,654	$153,600	$149,000	$141,245	$111,810

boxes, which will be a great convenience to the live-stock commission merchants and other business men in this section of the city for the safe keeping of valuable securities. The box vault is 10½ ft. in depth, and contains 240 sq. ft. This is all protected by chrome steel linings 1½ inches in thickness, making the vault absolutely fireproof. The entire fittings, including doors, linings, etc., consume over twenty tons of steel in their construction.

Both vaults are considered absolutely fireproof and perfect receptacles of safety, and are not only commodious in their construction, but in the fineness of the ornaments, which are all of mottled gun-metal.

THE WESTINGHOUSE ELECTRIC & MANUFACTURING CO., Pittsburg, Pa., has sold the Pennsylvania Railroad Co. double motor equipments for 122 cars, with Westinghouse multiple unit control for these cars and for 61 trailers. These equipments will be used by the Pennsylvania Co. for its Long Island suburban traffic and will be put into operation next spring. The motors will be of the latest Westinghouse type, with a rating of 200 HP. each; they will embody the most modern ideas in both electrical and mechanical design, and will possess a liberal overload capacity. The machinery for the Long Island power plant, which is now being installed, is supplied by the Westinghouse Co. and will include three turbo-generators, each having a capacity of 5,500 KW., as a notable part of the plant. Westinghouse, Church, Kerr & Co., consulting engineers, are in charge of this installation. The company has also sold to J. E. Henry & Sons, of Lincoln, N. H., two large induction motors for use in their pulp mill. The larger motor is a type F, rated at 600 HP. and will be supplied with three-phase current at 400 volts and 3,000 alternations. The motor will be direct connected to two 3-pocket pulp grinders and will run at a speed of 230 r. p. m. The smaller motor is of the type C constant speed and is rated at 300 HP. It will also be connected to a pulp grinder and will run at a speed of 205 r. p. m. These motors are ordered in addition to a large number of machines which have been purchased from the Westinghouse Co. for this paper mill. Twenty-four induction motors and four 350-KW. alternators, with exciters, switchboards, transformers and detail apparatus have been ordered, and the greater part of these have been delivered. Henry & Sons' mills have a capacity of about 60 tons per day. They manufacture news, high-grade bag and manila paper, and their mills are models of the most progressive equipment and methods. A partial list of motors ordered for mills is as follows: One 300 HP. type F, one 400 HP. type C, one 350 HP. type C, one 200 HP. type C one 150 HP. type C, two 100 HP. type C, nine 75 HP. type C, one 50 HP. type C, two 40 HP. type C, one 30 HP. type C, two 20 HP. type C, one 10 HP. type C and several smaller motors. The company has sold to the Transit Development Co., of Brooklyn, a large amount of electrical apparatus, including the complete equipment of transformers, switchboards and rotary converters for ten substations, which will be installed by the Brooklyn Co. on its suburban lines. The order includes 13 3-phase rotary converters, each being of 1,000-KW. capacity with direct current voltage of 550; 33 transformers of 400-KW. capacity and 12 of 200-KW. capacity. These transformers will be of the air-blast type, taking current at 6,300 volts and delivering it at about 290 volts. Complete switchboard installations will also be furnished in all these substations. Power from generators of the Brooklyn Heights R. R. Co. will be delivered to the substations at 6,300 volts, 3,000 alternations, 3-phase. The contract specifies that shipment shall begin Feb. 1, 1905, and shall be complete one year later.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

AUTOMOBILES.—Packard Motor Car Co., Detroit, Mich. Paper; 11½ × 8 ins.; pp. 20; illustrated.

Records of some notable road and track runs of Packard cars are presented in detail.

ARCHITECTURAL DESIGNS.—Frank P. Milburn, Architect, and Michael Heister, Associate, Columbia, S. C. Boards; 10 × 6½ ins.; illustrated.

Designs for a variety of buildings are included in this catalogue.

STEEL SHEET PILING.—United States Steel Piling Co., 135 Adams St., Chicago. Paper; 8 × 8¾ ins.; pp. 6; illustrated.

This describes the Behrend piling made of special rolled sections, illustrated in our issue of Sept. 29.

PROTECTION OF STEEL.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 5½ × 7 ins.; pp. 4; illustrated.

This briefly describes the use of silica-graphite paint on the girders of the Willis Ave. bridge, New York.

RIVETED PIPE.—American Spiral Pipe Works, 1173 South Paulina St., Chicago. Paper; 8½ × 11 ins.; pp. 4; illustrated.

This shows the application of the Taylor spiral riveted pipe to water supply and power purposes, conveying exhaust steam, etc.

MOTORS AND MOTOR DRIVEN TOOLS.—Emerson Electric Mfg. Co., St. Louis, Mo. Paper; two bulletins; 7 × 10 ins.; pp. 4; illustrated.

One of these bulletins describes spherical bi-polar enclosed motors of 1-20 to 1-6 HP. The other shows motor-driven friction and bench drills.

VERTICAL BORING MILL.—Gisholt Machine Co., Madison, Wis. 7½ × 9½-in. flyer.

This presents an illustration of a 64-in. vertical boring and turning mill, provided with double tool head, friction back-geared headstock, micrometer index dials, and similar conveniences.

GLOBE VALVES.—Burlington Brass Works, Burlington, Wis. Paper; 3 × 6 ins.; pp. 8; illustrated.

The trade name "Kant Leek" has been given to these valves, which are described as self-grinding and self-seating. The self-grinding is effected by means of an arrangement which permits a partial rotation of the valve face upon the valve seat before the valve begins to open. A jacket surrounding the valve steam, threaded to work in the valve case, serves as a guide to the valve and keeps it true on its seat.

AUTOMATIC CENTER PUNCH.—Brown & Sharpe Mfg. Co., Providence, R. I. 3¼ × 6-in. folder; illustrated.

A new tool is described here: a center punch constructed like a dentist's hammer, so as to make a prick-punch mark without using a hammer.

FACING CONCRETE SURFACES.—Illinois Steel Co., Cement Department, Rookery Building, Chicago. Cloth; 6 × 9 ins.; pp. 18; illustrated.

This is a reprint of the chapter on facing and finishing exposed concrete surfaces in the new book on "Reinforced Concrete," by A. W. Buel and C. S. Hill.

PRESSED STEEL CAR REPLACER.—The Portsmouth Pressed Steel Co., Portsmouth, O.

A rerailing frog made of pressed steel and patented March 31, 1903, is described in this leaflet. The frog is made with a lip which fits over the rail head and holds the frog firmly in place when in use.

ALTERNATING CURRENT GENERATORS.—Ft. Wayne Electric Works, Ft. Wayne, Ind. Paper; 8 × 10½ ins.; pp. 8; illustrated.

The machines described here are all of the revolving field type. They are usually made for 2,300 volts, polyphase. Tables of sizes are included.

CONCRETE BLOCK MACHINES.—Pettyjohn Brothers, 1300 N. First St., Terre Haute, Ind. Paper; 5½ × 8½ ins.; pp. 20; illustrated.

The Pettyjohn machine for making plain and ornamental concrete building blocks is illustrated and described, and there are views of structures built of these blocks.

PAINT FOR IRON AND STEEL.—The Arlington Mfg. Co., Canton, O. Circulars.

These circulars relate to the "carbonelastic" coating for iron and steel construction, to resist acids, gases, etc. Testimonials are given.

TIMBER PRESERVATION.—C. Lembcke & Co., 128 Water St., New York, N. Y. Paper; 6 × 9 ins.; pp. 24; illustrated.

This pamphlet deals with the Rueping process, which may be used with any preservative, although creosote is preferred. It is claimed to use less of the preservative than is required by other processes, but to distribute it more equally through the wood. This process is in use at the government timber-treating plant at the St. Louis Exhibition.

SULPHATE OF IRON.—American Steel & Wire Co., The Rookery, Chicago, Ill. Paper; 3 × 6 ins.; pp. 8.

Water, sewage and gas purification, disinfection, polishing and wood preserving are some of the uses for sulphate of iron or copperas described in this pamphlet. In our issue of Oct. 27, 1904, we published an illustrated description of the new coagulating plant built at the waterworks of St. Louis in which sulphate of iron is used for clarifying the water supplied to that city.

HOT BLAST SMELTER.—Vencedora Mine Equipment Co., 331 Pine St., San Francisco, Cal. Paper; 3½ × 6¼ ins.; pp. 10; illustrated.

The Vencedora hot-blast smelter is a pyritic furnace adapted principally for smelting copper ores and sulphide ores with gold and silver, and concentrates. The blast is heated (without fuel) to a high temperature as it enters at the tuyeres. The furnace can be blown in or blown out in a few minutes.

TURBINES.—Trump Manufacturing Company, Springfield, O. 6 × 9 ins.; pp. 80.

Aside from the valuable general information about turbines contained in this catalogue, there will be found interesting tables showing the horse power, cubic feet of water used, and revolutions per minute, for different sized turbines under different heads. Photographs and line cuts illustrate the turbines made by this company. One of the interesting photographs illustrates a 1,200-HP. turbine now running under a 95-ft. head.

EXPANSION BOLTS.—New Jersey Foundry & Machine Co., 9 Murray St., New York. Paper; 6 × 9 ins.; pp. 12; illustrated.

This pamphlet is exclusively concerned with the Diamond Expansion Bolt, the word "Diamond" referring to the shield rather than to the bolt. This shield has been so modified recently that any ordinary lag-screw can be used in it; but the makers can also furnish screws with various styles of end. A modification of the ordinary two-part diamond shield is made in a single piece, having slits in the lower portion, which give the necessary spring.

STONE PRESERVATIVE.—Szerelmey & Company, Washington, D. C. 5½ × 8 ins.; pp. 52.

This interesting catalogue describes the effects produced by the use of Szerelmey stone liquid for preserving masonry. More than half the catalogue is taken up with letters of recommendation written by those who have given the liquid a long trial. Among these letters, some of the most interesting are those describing the use of the liquid for water-proofing concrete water tanks, concrete swimming baths, and the like. This liquid was first used in England about 1855, and was applied to the new Houses of Parliament, Westminster.

ELECTRIC PIPE THAWING.—General Electric Co., Schenectady, N. Y. Paper; 5¼ × 7¾ ins.; pp. 14; illustrated.

A special transformer for pipe-thawing work is here presented. The transformer is designed to work on 2,000 to 2,300-volt circuits at 60 cycles. The secondary can be adjusted from 0 to 75 volts and from 0 to 400 amperes, by means of a movable iron piece acting as a flux shunt. The transformer, with its switch and meter board, weighs about 1,200 lbs. Methods of doing the work, and time required to thaw, are given, the times being compiled from published data of actual thawing work.

SPEED CHANGE GEAR.—The Reed-Morrill Electric Co., 1035 Ridge Ave., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 4; illustrated.

The Reed "Speed-jack" is a speed change gear of the belt type. The pulleys have their peripheries made of separate slats carried on a series of transverse whose radial distance is fixed by spiral grooves in the plates of the pulley. By an appropriate turning device these side plates are turned and the pulley enlarged or diminished in diameter.

STEAM HAMMERS.—Bement, Miles & Co., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 84; illustrated.

The subject is presented here in first-class catalogue manner. The range covered is single-frame, double-frame, open-frame, steam hammers, tilting hammers for oblique work, board and steam drop hammers. With each machine is given an illustration and list of sizes and code words, and some accompanying text remarks. Some talk on foundations and operating will be convenient.

LOCOMOTIVES, NO. 10; SHAY PATENT GEARED LOCOMOTIVES, NO. 12.—The Lima Locomotive & Machine Co., Lima, O. 6 × 9 ins.; pp. 78; 76.

These two pamphlets describe the products of a firm which has grown from comparatively small beginnings until it now possesses a plant capable of turning out 300 locomotives per annum. The first of these pamphlets describes locomotives of standard type, from the smallest size of contractors and mine locomotives up to machines suitable for regular railway freight and passenger traffic. The second describes the well known Shay geared locomotive, designed for use on steep grades and on lumber and logging railways.

SEPARATORS.—Warren Webster & Co., Camden, N. J. Paper; 6 × 9 ins.; pp. 63; illustrated.

The report of a test on a Webster steam and oil separator introduces this pamphlet. The test appears to show complete removal from steam of large quantities of oil and water that were introduced. Following this is some discussion of the proper functions and proper installation of separators, and then illustrated descriptions of various forms of the Webster separator. Some of these separators are provided with circulating tubes for condensing water, in order to lower the temperature of superheated exhaust steam and allow all oil to separate out more perfectly.

STREET FLUSHING MACHINE.—American Street Flushing Machine Co., 25 Broad St., New York City, and Laclede Building, St. Louis, Mo. Paper; 7 × 9 ins.; pp. 24; illustrated.

By charging a wagon-mounted tank with compressed air, forcing in water and using a special nozzle a street flushing machine is provided which is worthy of investigation by municipal authorities. In New York City the machine has been used for some months on a number of streets with evident satisfaction. The tank is made of ¼-in. boiler iron and has a capacity of 700 gallons. The nozzles are of brass, and throw a flat fan-shaped stream which can be regulated by thumb-screws so as to give streams ranging from $^1/_{16}$ to ½-in. in initial thickness. The nozzles can be adjusted to throw a stream at any desired angle.

CABLEWAYS.—Lidgerwood Manufacturing Company, 96 Liberty St., New York. 9 × 11½ ins.; pp. 160.

This large catalogue is filled with many instructive photographs and illustrations showing the application of Lidgerwood cableways to a great variety of uses. Among the interesting photographs may be mentioned one illustrating dredging with clam-shell buckets handled by a cableway, across a Mexican drainage canal. This plant was operated by S. Pearson & Sons, the well-known international contractors. Another interesting photograph shows a steam shovel loading skips, which are moved by a cableway. Cableways for dock construction, for quarry work, for dam building, for lock and canal work, for bridge pier construction and for a great variety of concrete work are illustrated by photographs, which in all cases are accompanied by descriptive text giving a brief account of the class of work and its location.

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Baltimore, Md., until 12 o'clock M., January 4, 1905, and then opened, for furnishing materials and labor of all kinds necessary for the erection and delivery of a keeper's dwelling at Cape Lookout Light-Station, N. C., in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to COLONEL W. A. JONES, Corps of Engineers, U. S. A., Engineer. 23-1t

For other Proposal Advertisements see pages 35, 36, 37, 38 of Advertisements

SITUATIONS OPEN

WANTED.—Mechanical draftsman; one having technical education and familiar with designing and detailing machinery; preferably one having had experience in gas engine work and also railroad work. Address "P. 23," Engineering News, New York. 23-1t

WANTED.—An engineer of practical experience in frog and switch work; state age, references and salary required. Address "O. 23," Engineering News, New York. 23-2t